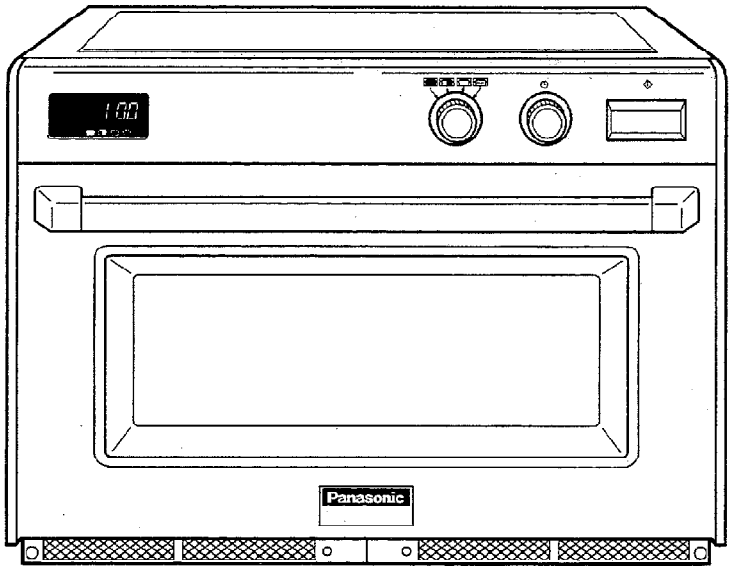
ORDER NO. MOD9806199C3

# Service Manual

Microwave Oven

# NE-1740




## Specifications

| | | |
|---|---|---|
| Power Source : | | 220 V AC Single Phase, 50Hz |
| Power Requirement : | | 2820 W |
| High frequency Output : | HIGH | 1700 W (IEC-705) |
| | MED | 850 W |
| | LOW | 340 W |
| | DEF | 170 W |
| Frequency : | | 2450 MHz |
| Timer : | | 60 Min. |
| Outside Dimensions : | | 650 mm (W) X 526 mm (D) X 471 mm (H) |
| Oven Cavity Dimensions : | | 535 mm (W) X 330 mm (D) X 250 mm (H) |
| Weight : | | 54 kg |
| Specification subject to change without notice. | | |

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## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

This product should be serviced only by trained, qualified personnel.
This service manual covers products for following markets.
When troubleshooting or replacing parts, please refer to the country identifications shown below for your applicable product specification.
VPE.....South Africa

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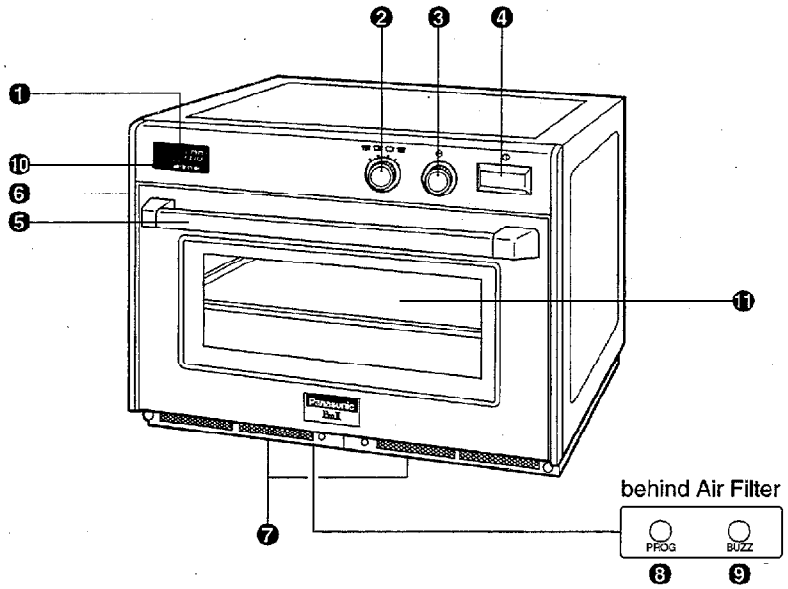
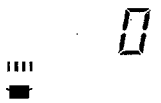
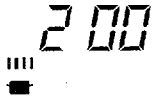
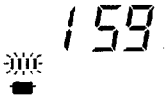
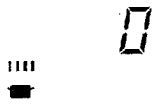
# OUTLINE DIAGRAM




❶ Digital Display Window(see below)
❷ Power Level Selector Dial
❸ Time Dial
❹ Start Button
❺ Door Handle
❻ Oven Lamp Cover
❼ Air Filters
❽ Program Entry Switch (behind Air Filters)
❾ Buzzer Switch (behind Air Filters)
❿ Power LevelIndicator Display
⓫ Middle Shelf

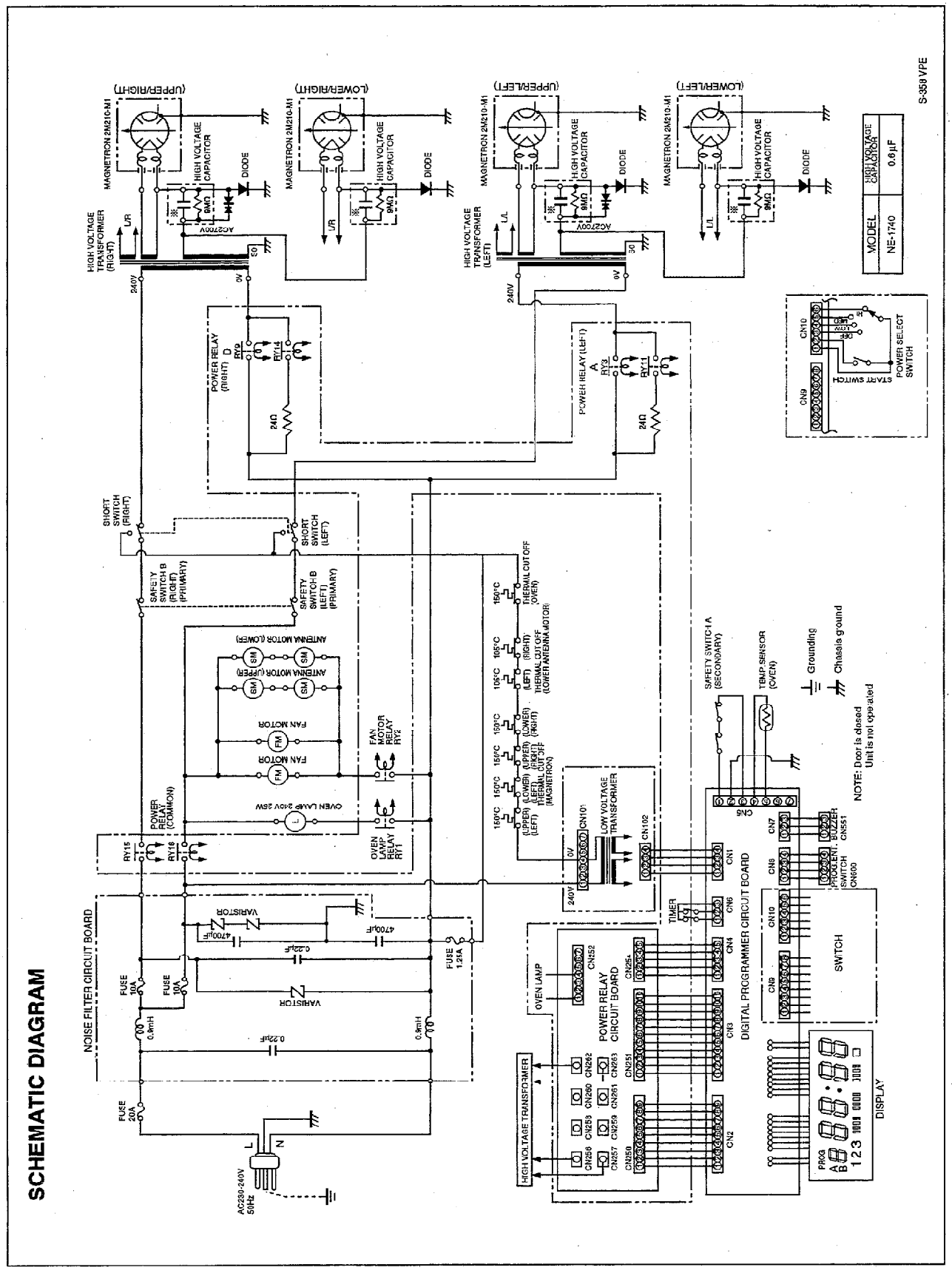
# OPERATION PROCEDURE

| OPERATION | DISPLAY |
|---|---|
| 1. Plug the power supply cord into wall receptacle. | |
| 2. Open the door.<br>Place a water load and close door. |  |
| 3. Select desired power level if other than ■ (HIGH) power. | |
| 4. Set the desired heating time by turning the timer dial. |  |
| 5. Press the start button. |  |
| 6. When the time is up, display will blink "0" until door is opend. | |
| 7. Open the door and remove water load. |  |
| 8. Close the door.<br>1 minute later, display will go blank. | |

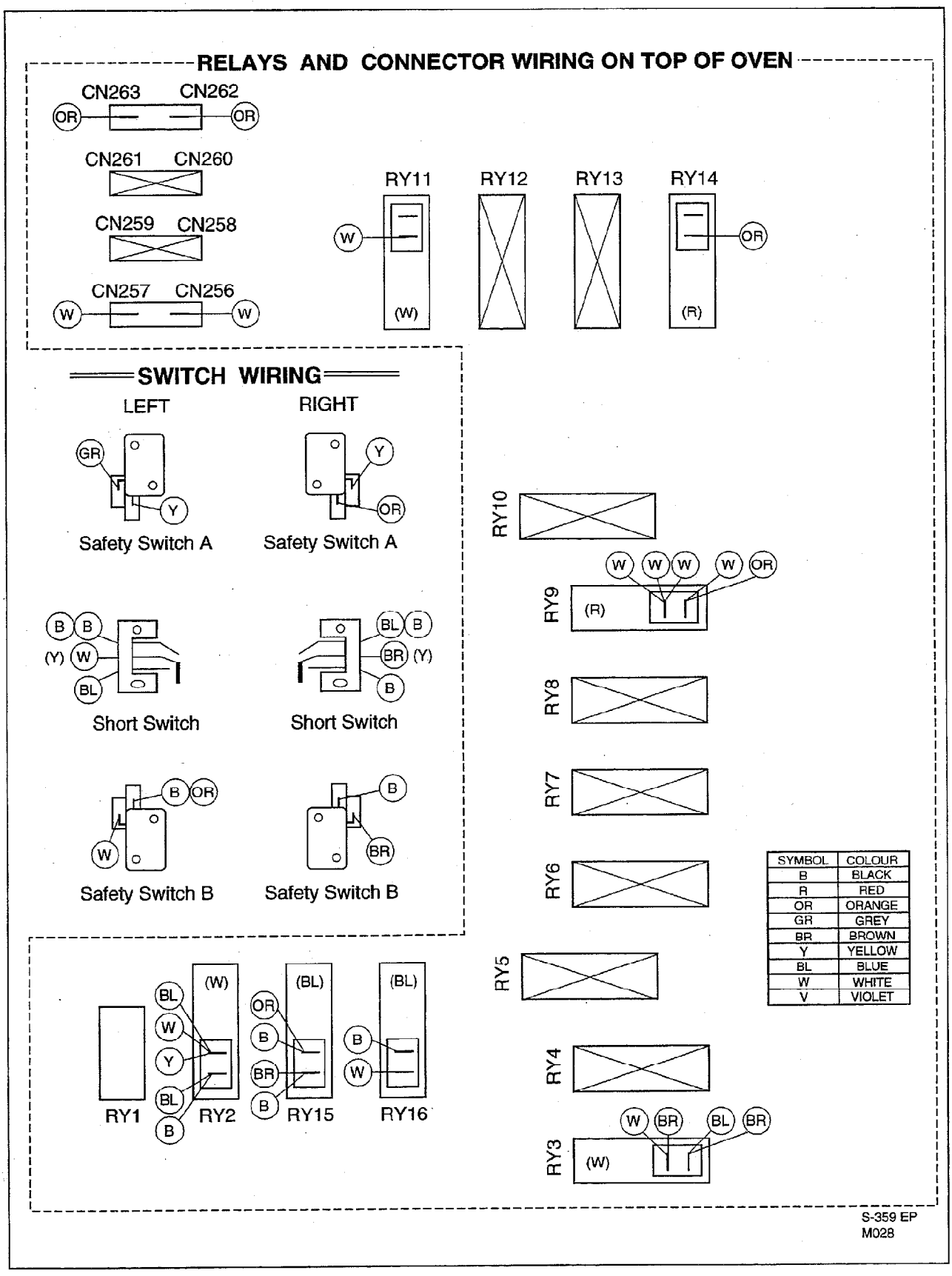
**Notes:**

1. When you press the Start Button with door open, "0" will appear in the display in all cases.
2. Even after setting the heating time you can still change the power level.
3. If you wish to change the heating time during heating, simply adjust the timer to desired minutes and seconds.

# SCHEMATIC DIAGRAM



# WIRING DIAGRAM



# DESCRIPTION OF OPERATING SEQUENCE

**Variable power cooking control**

The coil of power relays are energized intermittently by the digital programmer circuit, when the oven is set at any power selection except for High power position. The digital programmer circuit controls the ON-OFF time of the power relays contacts in order to vary the output power of the microwave oven. The relation between indications on the control panel and the output power of the microwave oven is as shown in table.

**NOTE: ON-OFF time of power relays are changed by digital programmer circuit when remaining cooking time or selected cooking time are within 8 minutes at MED, LOW and Defrost cooking mode.**

| POWER | POWER RELAY | ON-OFF TIMING OF POWER RELAY |
|---|---|---|
| HIGH | POWER RELAY D | ON / OFF |
| | POWER RELAY A | ON / OFF |
| MED | POWER RELAY D | ON / OFF |
| | POWER RELAY A | ON / OFF |
| LOW | POWER RELAY D | ON / OFF |
| | POWER RELAY A | ON / OFF |

62-009M

## 2. Defrost control

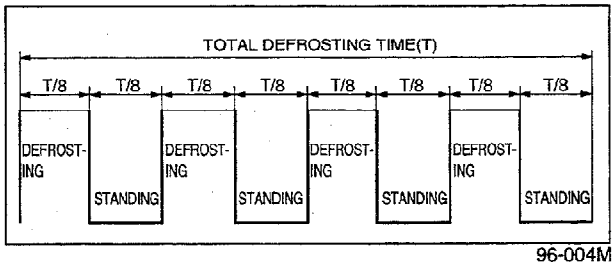
When defrost power and defrosting time is selected and Start pad is touched:

(A) The digital programmer circuit (DPC) divides the total defrosting time into 8 equal periods, consisting of four defrosting periods, each followed by a standing period. (See **figure**)

(B) During defrosting power periods, power relay ON-OFF time is controlled at Low power mode by DPC.

(C) During Standing periods, power relay is always open resulting in no microwave power.

**NOTE: Defrost time selected is converted into seconds by the DPC but display will show selected time in minutes and seconds as programmed. The total number of seconds is divided into 8 time periods. The remainder (seconds not equally divisible by 8) are added to the last standing time period.**




96-004M

# CAUTIONS TO BE OBSERVED WHEN TROUBLESHOOTING

Unlike many other appliances, the microwave oven is high voltage, high current equipment.
Though it is free from danger in ordinary use, extreme care should be taken during repair.

**CAUTION**

Servicemen should remove their watches whenever working close to or replacing the magnetron.

**1. Check the earthing**

Do not operate on a 2 wire extension cord. The microwave oven is designed to be used in a completely earthed condition. It is imperative, therefore, to make sure it is properly earthed before beginning repair work.

**2. If the door lock, the door switch, the door seal or the door develops a malfunction, be sure not to operate the oven until complete repairs are made.**

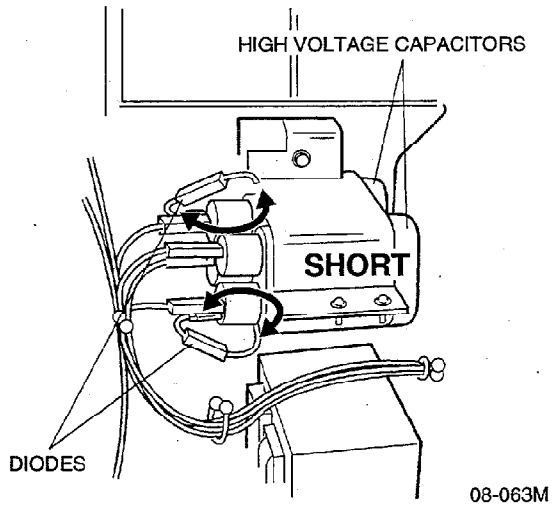
If the oven is operated with any of these parts in imperfect condition, hazardous microwave leakage might occur.

**WARNING**

Never operate the oven until the following are confirmed:
(A) The door is tightly closed.
(B) There is no broken hinge or door arm.
(C) The door seal is not damaged.
(D) The door is not bent or warped.
(E) There is no other visible damage.

**3. Warning about the electric charge in the high voltage capacitor.**

For about 30 seconds after the oven is turned off, an electric charge remains in the high voltage capacitor. When replacing or checking parts, remove the power plug from the outlet, wait 30 seconds and short the terminal of the high voltage capacitor (terminal of lead wire from diode) to chassis ground with an insulated jumper lead wire or an insulated handle screwdriver to discharge.




Discharge the 2 High Voltage Capacitors.
Touch chassis side first then short to the high voltage capacitor terminal.

**Important Note**

1. High voltage above 250 volts are existing on following parts during operation.
   *Magnetron
   *High Voltage Transformer
   *High Voltage Diode
   *High Voltage Capacitor
   Unusual attention should be paid during repair or troubleshooting of product.
2. If the microwave oven is operated with incorrect installed door hinge or magnetron, it can cause microwave leakage of over 5mW/cm$^2$.
   Hence it is absolutely necessary to check if magnetron and door hinge are correctly and safely installed after repairs or replacement.

**WARNING**

Never touch any circuit wiring with your hand nor with an insulated tool during operation.

**4. When parts must be replaced, always remove the power plug from the outlet, and discharge the high voltage capacitor.**

**5. Confirm after repair**

(A) After repair or replacement of parts, make sure that the screws of the oven, etc. are neither loose nor missing.
Microwave might leak if screws are not properly tightened.
(B) Make sure that all electrical connections are tight before inserting the plug into the wall outlet.

**6. Avoid inserting nails, wire, etc. through holes in unit during operation.**

Never insert a wire, nail or any other metal object through the lamp holes on the cavity or any other holes or gaps, because such objects may work as an antenna and cause microwave leakage.

**7.**

**CAUTION**
**MICROWAVE RADIATION**

Personnel should not be exposed to the microwave energy which may radiate from the magnetron or other microwave generating device if it is improperly used or connected all input and output microwave connections waveguides, flanges, and gasket must be secure. Never operate the device without a microwave energy absorbing load attached. Never look into an open waveguide or antenna while the device is energized.

**8.**

**CAUTION**

High voltage parts may become uncovered when outer cabinet is removed.

# DISASSEMBLY AND PARTS REPLACEMENT PROCEDURE

**CAUTION**
Servicemen should remove their watches whenever working close to or replacing the magnetron.

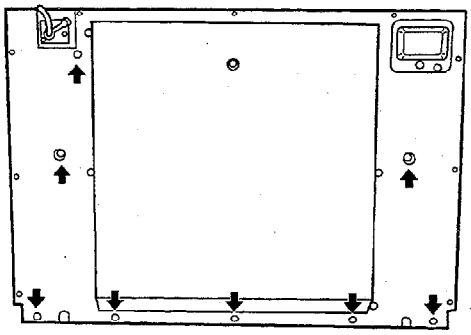
## 1. Magnetrons (Upper and Lower)

**Upper magnetrons (Right and Left)**
(A) Discharge electric charge remaining on the high voltage capacitors.
(B) Remove the entire rear panel by removing screws as shown in **figure.**
(C) Disconnect all lead wires from magnetron and thermal cutout.
(D) Remove the 4 screws holding magnetron.
(E) Remove 2 screws holding thermal cutout.
(F) Remove the mounting bracket from magnetron and install it on the new magnetron.

**Lower magnetrons (Right and Left)**
(A) Discharge electric charge remaining on the high voltage capacitors.
(B) Remove the entire rear panel by removing screws as shown in **figure.**
(C) Disconnect all lead wires from magnetron and thermal cutout.
(D) Remove the 4 screws holding magnetron.
(E) Remove 2 screws holding thermal cutout.
(F) Remove the air guide from magnetron and install it on the new magnetron.

**NOTE: To prevent microwave leakage, tighten mounting screws properly making sure there is no gap between the waveguide and the magnetron.**

**CAUTION**
When connecting 2 filament lead wires to the magnetron terminals, be sure to connect the lead wires in the correct position. The lead wire with blue connector should be connected to "FA terminal" and white one should be connected to "F terminal". (See **Figure**)



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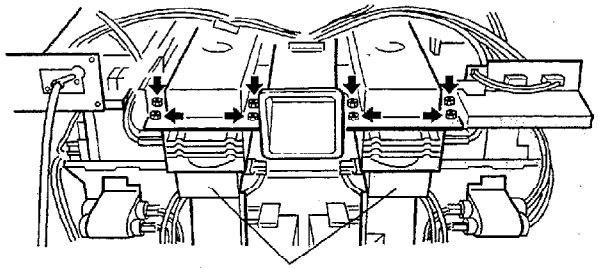
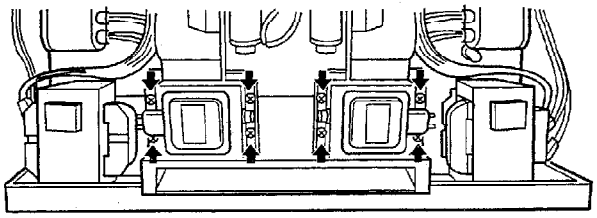


UPPER
MAGNETRONS

02-050M



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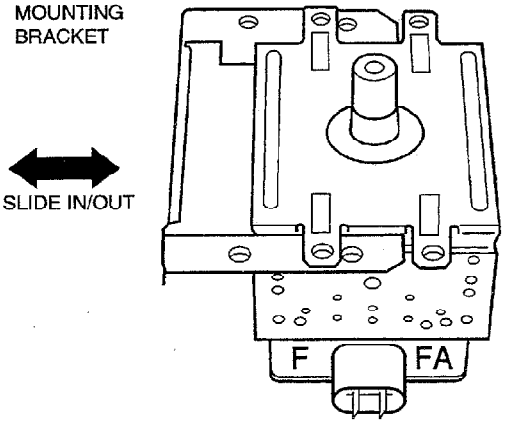
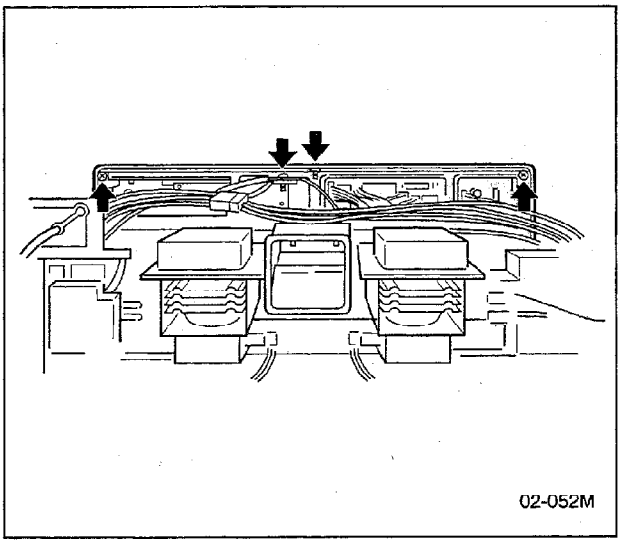



08-039M

## 2. Digital programmer circuit board

(A) Remove grounding screw for membrane switch and D.P.C. ground.
(B) Remove 2 screws holding control panel assembly to detach it from main unit then remove connectors.
(C) Remove 2 screws holding the D.P.C. board and remove the board by freeing catch hooks.
**NOTE: Please use care in handling the power supply P.C.B. and D.P.C. board to avoid damage.**

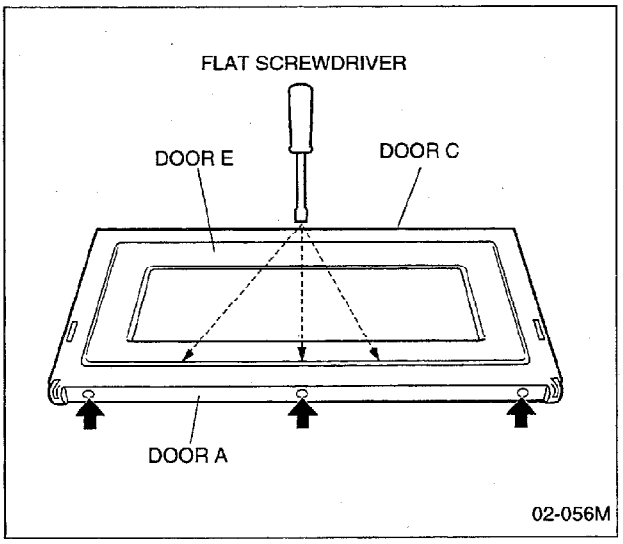


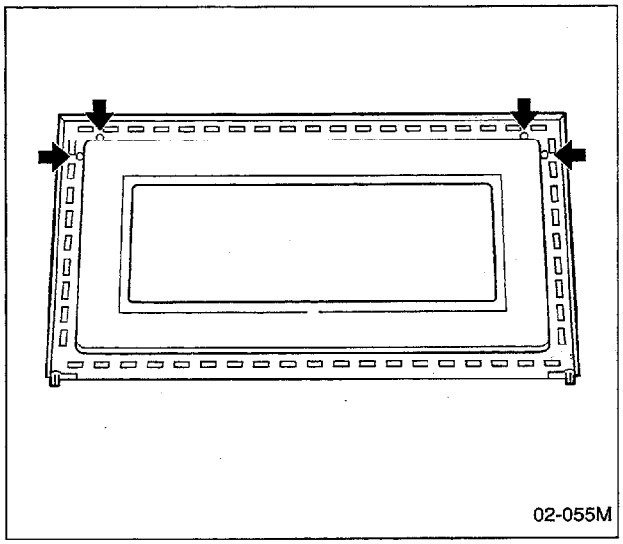

## 3. Low voltage transformer and/or power relays

**NOTE: Be sure to ground any static electric charge built up on your body before handling the DPC.**
(A) Using solder wick or a desoldering tool and 30W soldering iron, carefully remove all solder from the terminal pins of the low voltage transformer and/or power relays.
**NOTE: Do not use a soldering iron or desoldering tool of more than 30 watts on DPC contacts.**
(B) With all the terminal pins cleaned and separated from DPC contacts, remove the defective transformer/power relays and install new transformer/power relays making sure all terminal pins are inserted completely. Resolder all terminal contacts carefully.

## 4. Disassembly of door assembly

(A) Detach the door spring ends from right and left door arms.
(B) Remove the arm lever right and left by removing 2 screws each on both sides.
(C) Remove the sashes right and left by removing 1 screw each on both sides.
(D) By holding the door assembly, remove the right and left sides door hinge pins.
The door assembly is now free from the oven.
(E) Remove 3 screws holding the door A.
(F) Remove the door C by using a flat screwdriver as **figure**.
(G) Remove 4 screws holding door handle.
(H) Separate door A and door E.
(I) Remove the door arms by removing 1 pin each on both sides.



## 5. Upper antenna (Right and Left)

**Upper antenna (Right and Left)**

(A) Remove 8 plastic clips holding ceiling plate and exhaust guides by using flat screwdriver or the like.

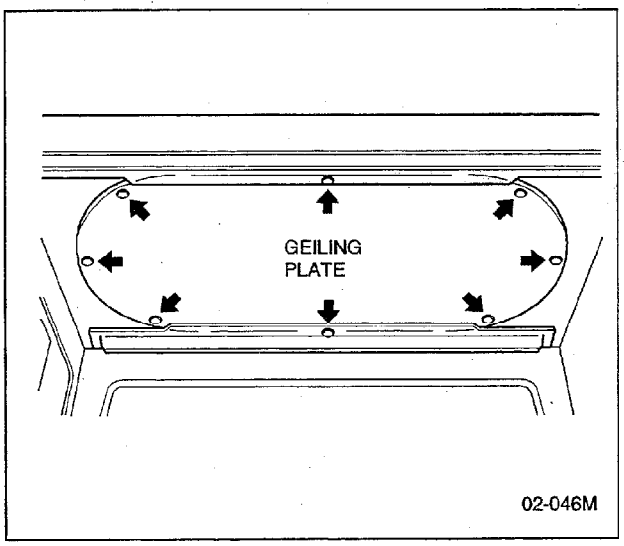
(B) Remove 2 screws holding upper antenna assy by inserting screwdriver through the opening on the antenna as shown in **figure.**

## 6. Lower antenna (Right and Left)

**Lower antenna (Right and Left)**

(A) To remove the floor shelf, insert a screwdriver through the openings on the right and left sides of the oven cavity and carefully lift the floor shelf as shown in **figure.**

(B) Remove 2 screws holding lower antenna assy by inserting screwdriver through the opening on the antenna as shown in **figure.**

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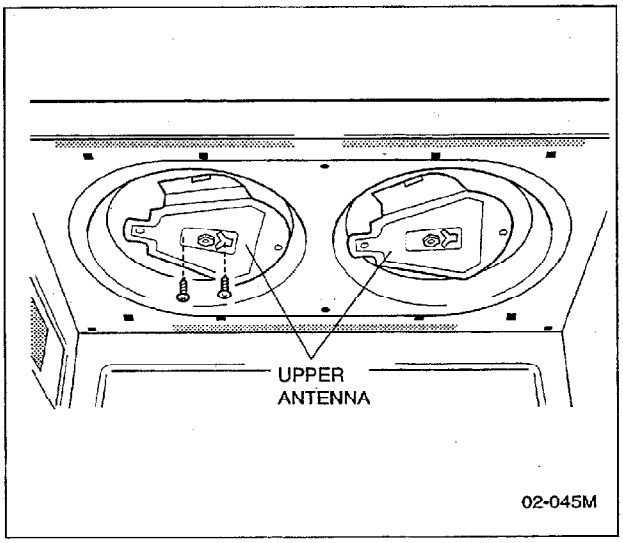


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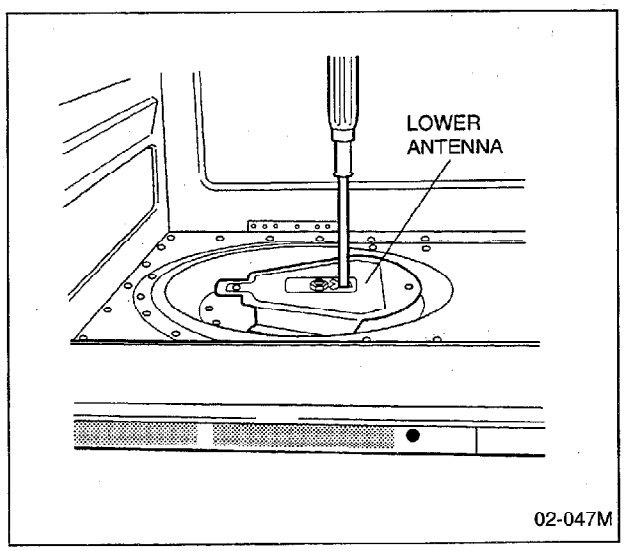


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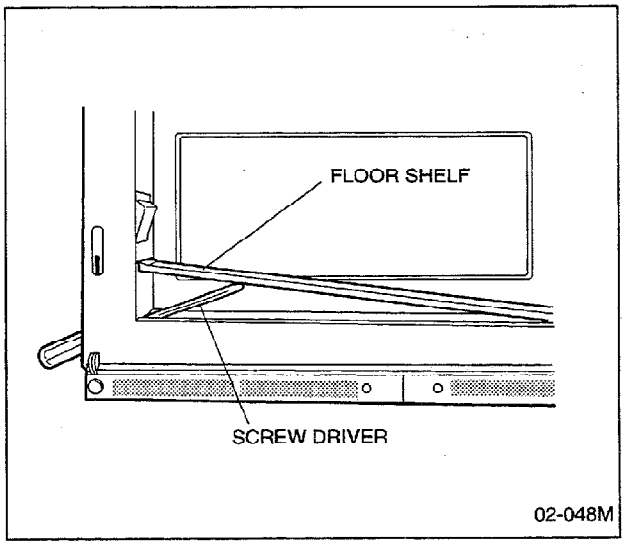


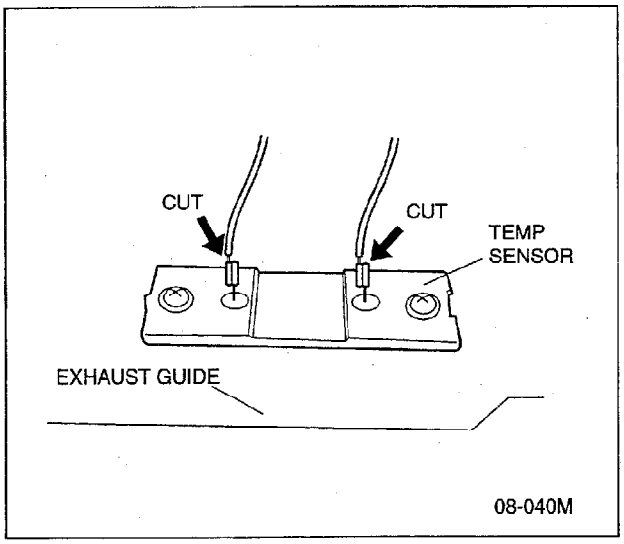

02-048M

## 7. Replacement of temperature sensor (Thermal protector)

(A) Cut 2 lead wires at the top of sensor terminals.
(B) Remove 2 screws holding temp sensor and replace with new one.
(C) Solder the lead wires securely to the sensor terminals.

## 8. Replacement of antenna motors (upper and lower)

(A) The upper antenna motor may be removed by disconnecting the lead wire connectors and removing its 2 mounting screws.
(B) To remove the lower antenna motor, carefully place the unit on its left side.
(C) Remove the motor cover by removing 2 screws and follow same procedure as for upper antenna.




**CAUTION**

There are two types of antenna motors Therefore please replace with correct one as showing below.

| | |
|---|---|
| Upper Antenna Motor | PART NO. : ANE61446030AP (RATED: 120V) |
| Lower Antenna Motor | PART NO. : A6144-3280 (RATED: 120V) |

# COMPONENT TEST PROCEDURE

**CAUTION**

1. High voltage is present at the high voltage terminal of the high voltage transformer during any cook cycle.
2. It is neither necessary nor advisable to attempt measurement of the high voltage.
3. Before touching any oven components, or wiring, always unplug the oven from its power source and discharge the high voltage capacitor.

### 1. High voltage transformer

(A) Remove connections from the transformer terminals and check continuity.
(B) Normal (cold) resistance readings should be as follows:

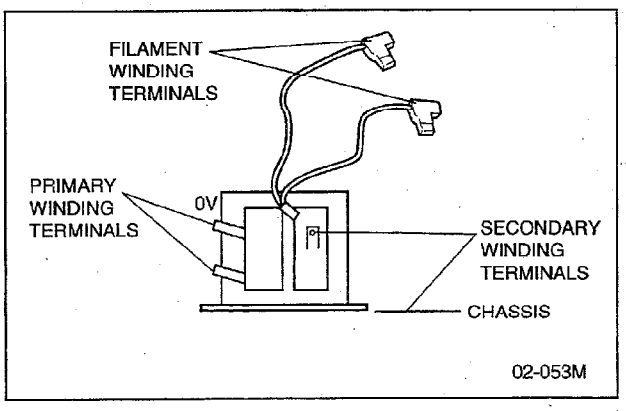
| | |
|---|---|
| Secondary winding | Approx. 40 Ω ~ 100 Ω |
| Filament winding | Approx. 0 Ω |
| Primary winding | Approx. 0 Ω ~ 3 Ω |

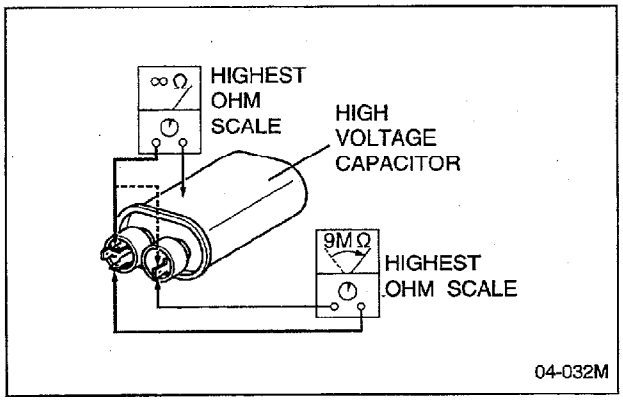
### 2. High voltage capacitor

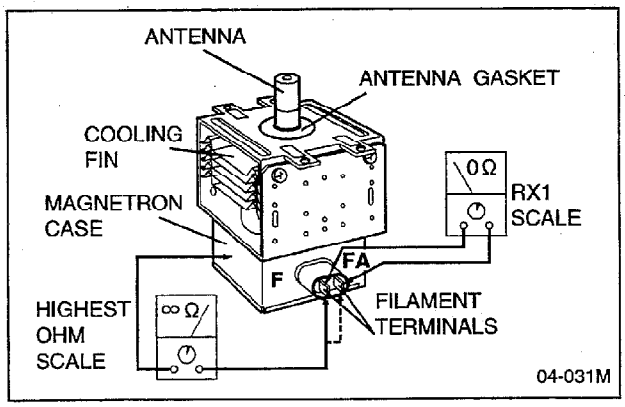
(A) Check continuity of capacitor with meter on highest OHM scale.
(B) A normal capacitor will show continuity for a short time, and then indicate 9MΩ once the capacitor is charged.
(C) A shorted capacitor will show continuous continuity.
(D) An open capacitor will show constant 9MΩ.
(E) Resistance between each terminal and chassis should be infinite.

### 3. Magnetron

Continuity checks can only indicate an open filament or a shorted magnetron. To diagnose for an open filament or shorted magnetron.
(A) Isolate magnetron from the circuit by disconnecting the leads.
(B) A continuity check across magnetron filament terminals should indicate one ohm or less.
(C) A continuity check between each filament terminal and magnetron case should read open.

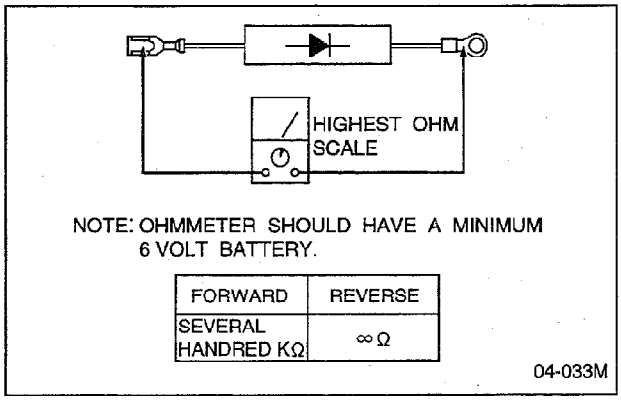


## 4. Diode

(A) Isolate the diode from the circuit by disconnecting the leads.
(B) With the ohmmeter set on the highest resistance scale, measure the resistance across the diode terminals. Reverse the meter leads and again observe the resistance reading. Meter with 6V, 9V or higher voltage batteries should be used to check the front-to-back resistance of the diode, otherwise an infinite resistance may be read in both directions.
A normal diode's resistance will be infinite in one direction and several hundred kΩ in the other direction.




NOTE: OHMMETER SHOULD HAVE A MINIMUM 6 VOLT BATTERY.

| FORWARD | REVERSE |
|---|---|
| SEVERAL HANDRED KΩ | ∞Ω |

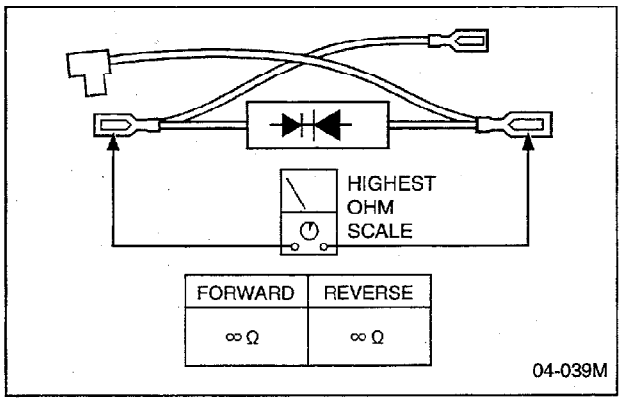
04-033M

## 5. Protector diode

(A) Isolate the protector diode assembly from the circuit by disconnecting its leads.
(B) With the ohmmeter set on the highest resistance scale, measure the resistance across the protector diode terminals.
Reverse the meter leads and again observe the resistance reading.
A normal protector diode's resistance will be infinite in both directions.
It is faulty if it shows continuity in one or both directions.

## 6. Temp sensor (Thermal protector)

A temp sensor is mounted on exhaust guide. Its purpose is to automatically shut off the oven in case the cavity overheats for any reason.
The thermal protector will operate at 257°F (125°C).
The device is connected to the DPC on touch control models.
When the thermal protector exceeds its temperature it will turn off the power to oven cavity and display wil go to reset mode.
The cooking program can be reset after cool-down.
THERMISTOR RESISTANCE VALUE
30K-120K at 10°C-30°C (50°F-86°F)




| FORWARD | REVERSE |
|---|---|
| ∞Ω | ∞Ω |

04-039M

# MEASUREMENTS AND ADJUSTMENTS

## 1. Adjustment of the safety switch B (Right and Left side)

**(A) Switch operation**

When the door is slightly opened, the safety switch B opens the main circuit.

The movement of the door from the closed position to the operation position (shown as ℓ) of the switch when it opens the main circuit, must maintain within following tolerances.

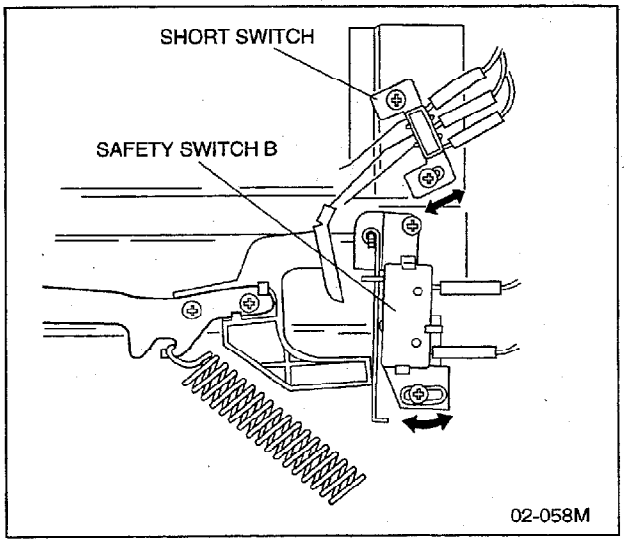
SAFETY SWITCH B (ℓ) = 3 mm ~ 5 mm

(When safety switch B opens the main circuit)

**Note: Make sure that safety switch A turns off prior to the safety switch B when the door is gradually opened.**

**(B) How to adjust safety switch B**

Loosen 2 screws which secure the safety switch B bracket to the bracket of the oven assembly and then adjust the safety switch B bracket by moving it to either direction as shown in **figure.**



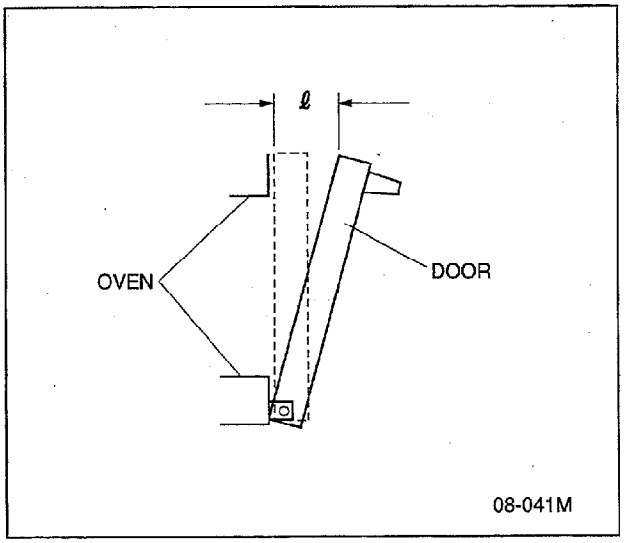

## 2. Adjustment of the Short Switch (Right and Left side)

(A) When the door is slightly opened, the Short Switch opens the main circuit and closes the contacts for short circuit.

The movement of door from its closed position to open position at which the Short Switch contacts open the main circuit (shown as ℓ) must maintain within 8 mm ~ 11 mm and at which the switch contacts close the short circuit should be 20 mm ~ 35 mm.

(B) How to adjust

Loosen the 2 screws holding the short switch to the short switch bracket, and then adjust the safety switch A by moving it to either direction as shown in **figure**.



## 3. Adjustment of the safety switch A (Door switch) (Right and Left side)

**(A) Switch operation**

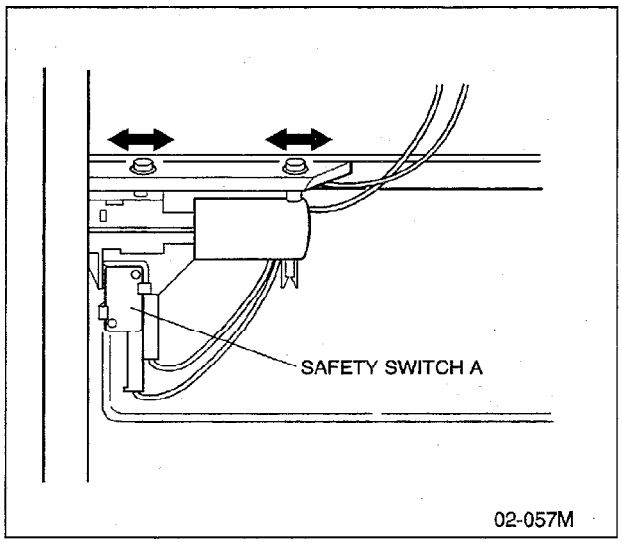
When the door is slightly opened, the contacts of safety switch A opened to give digital programmer circuit the information that the door is opend. The allowable movement of the door from the closed position to the operating position (shown as ℓ ) of the switch when it opens the circuit, is specified as follows;

SAFETY SWITCH A ( ℓ ) = 1 mm ~ 3 mm
(When safety switch A opens the circuit)

**Note: Make sure that safety switch A turn off prior to the safety switch B when the door is gradually opened.**

**(B) How to adjust safety switch A**

Loosen 2 screws which secure the safety switch A bracket to the bracket of the oven assembly and then adjust the safety switch A bracket by moving it to either direction as shown in **figure.**



02-057M

## 4. Measurement of microwave output

The output power of the magnetron can be determined by performing IEC standard test procedures. However, it is possible to test the magnetron by following procedure outlined below.

Necessary equipement:

* 1 litre beaker * Glass thermometer
* Wrist watch or stopwatch

**NOTE: Check the line voltage under load to ensure it meets specifications. Low voltage condition will cause a reduction in magnetron output. Temperature readings and heating time, should be as accurate as possible.**

Output power performance test procedure.

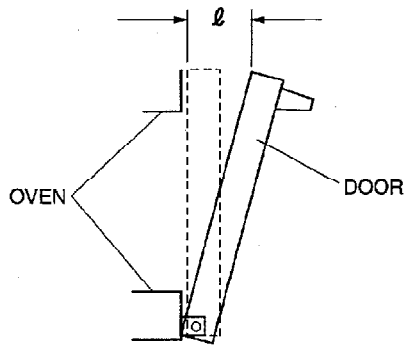
(A) Fill the beaker with exactly one litre of tap water.
Stir the water using the thermometer and note the temperatrue.
(Record as T1)

(B) Place the beaker in the center of cook plate.
Set the oven for High power and heat for exactly one minute.

(C) After completion of the heating cycle, stir the water again with the thermometer and note the temperatute.
(Record as T2)

The normal temperature rise (T2-T1) at High power position ( ■ ) for each models is as shown in following table.

| Model | Temperature Rise (1 ℓ - 1 Min.) |
|---|---|
| NE-1740 | Min. 15C° |



08-041M

# TROUBLESHOOTING GUIDE

**CAUTION**

1. Check grounding before checking for trouble.
2. Be cafeful of the high voltage circuit.
3. Discharge high voltage capacitor.
4. When checking the continuity of the switches or the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.
   When disconnecting a plastic connector from a terminal, you must hold the plastic connector instead of the lead wire and then disconnect it, otherwise lead wire may be open or the connector cannot be removed.
5. Be sure to ground any static electric charge built up in your body, before handling the D.P.C.
6. A 220V AC is present at the shaded area ▨ of the power supply circuit board (Terminals of power relays and primary circuit of low voltage transformer). When troubleshooting, be cautious of possible electrical shock hazard.

First of all operate the microwave oven following the correct operating procedures described on pages 3 of this service manual in order to find the exact cause of any trouble.

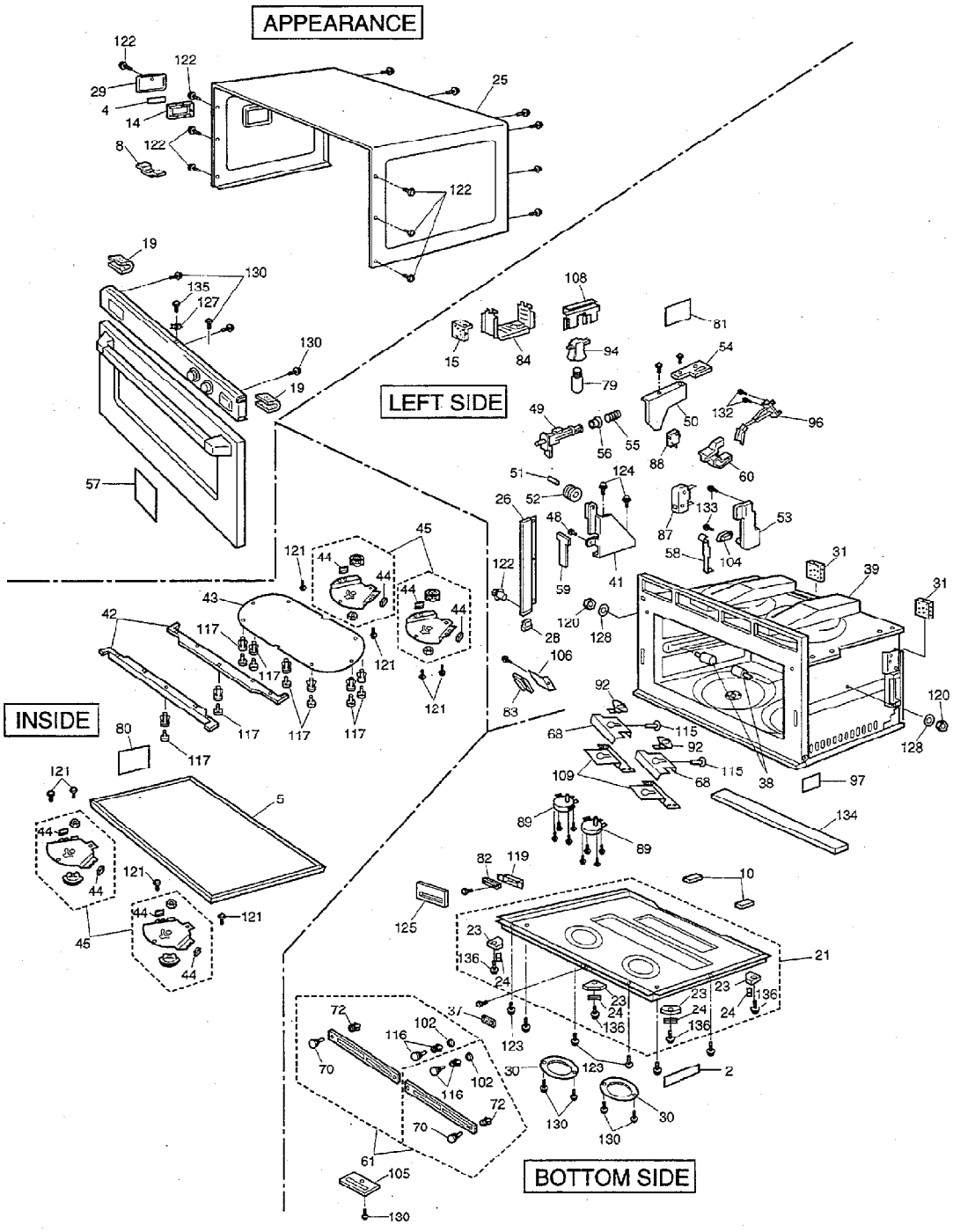
**NOTE: If the unit shows faulty symptom as shown below, check the parts listed in possible cause column depending on failure indication e.g. F81, F84 in the display.**

## [TROUBLE ] Oven does not operate at all or oven does not start cooking.

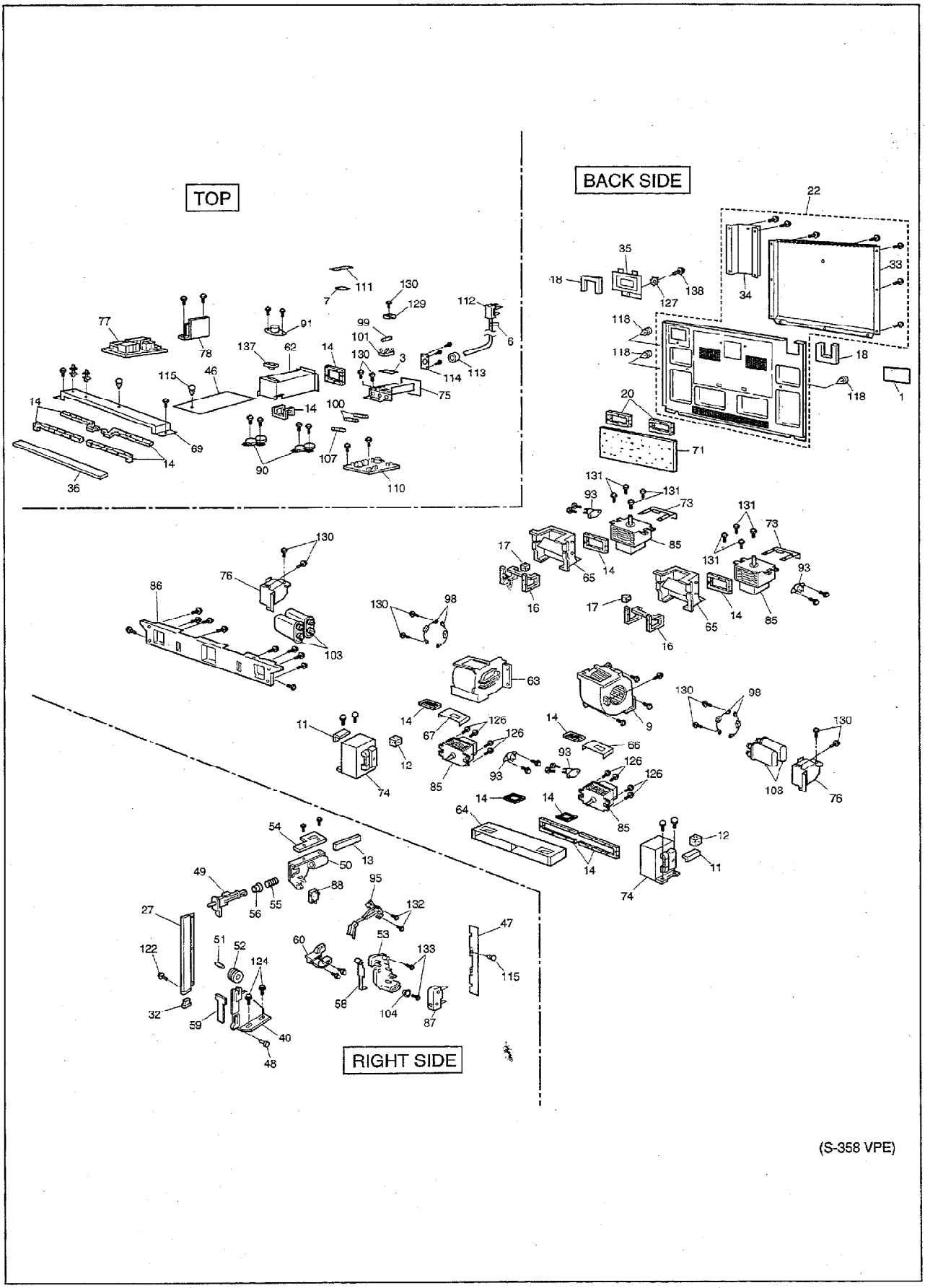
| DISPLAY | CONDITIONS | POSSIBLE CAUSE | TIMING OF FAILURE INDICATION |
|---|---|---|---|
| F33 | Open temperature sensor (exhaust) | 1.Temperature sensor failure<br>2.Digital programmer circuit failure<br>3.Loose connector CN5 | It is appeared when failure occured. |
| F34 | Short temperature sensor (exhaust) | 1.Temperature sensor failure<br>2.Digital programmer circuit failure | It is appeared when failure occured. |
| F44 | | 1.Shorted power select switch<br>2.Shorted membrane switch | It is appeared 2 minutes after failure occured. |
| F01<br>(With continuous beep sounds) | Exhaust temperature exceeds 120°C | 1.Burning food in the oven due to over cook | It is appeared when exhaust temperature exceeds above 120°C |
| F03 | Input voltage exceed + 12.5% | 1.Increase in power source voltage | It is appeared when the unit is plugged in. Note that it returns normal operation mode by tapping the RESET pad ( ▽ ). |
| F04 | Input voltage is less than – 12.5% | 1.Decrease in power source voltage | It is appeared when the unit is plugged in. Note that it returns normal operation mode by tapping the RESET pad ( ▽ ). |
| F05 | Memory failure | 1.Digital programmer circuit failure | |
| No display | 1.25A fuse blown | 1.Switch failure (short switch)<br>2.Low-Voltage transformer failure | |
| No display | 1.25A fuse is OK | 1.Thermal cutout failure<br>2.Low voltage transformer failure<br>3.Digital programmer circuit failure | |
| F81 | No voltage supply to high voltage transformer (left) | 1.Relay failure RY-3 (A)<br>2.Loose connector CN256, CN257<br>3.Digital programmer circuit failure | It is appeared when cooking is completed. |
| F84 | No voltage supply to high voltage transformer (right) | 1.Relay failure RY-9 (D)<br>2.Loose connector CN262, CN263<br>3.Digital programmer circuit failure | It is appeared when cooking is completed. |
| F86 | Shorted contacts of RY-3 | 1.Relay failure RY-3 (A)<br>2.Digital programmer circuit failure | It is appeared when failure occured. |
| F89 | Shorted contacts of RY-9 | 1.Relay failure RY-9 (D)<br>2.Digital programmer circuit failure | It is appeared when failure occured. |

# EXPLODED VIEW AND PARTS LIST

## EXPLODED VIEW




(S-358 VPE)


TOP
BACK SIDE
RIGHT SIDE
(S-358 VPE)

# PARTS LIST

NOTE : When ordering replacement part(s), please use part number(s) shown in this parts list.
Do not use description of the part.
: Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

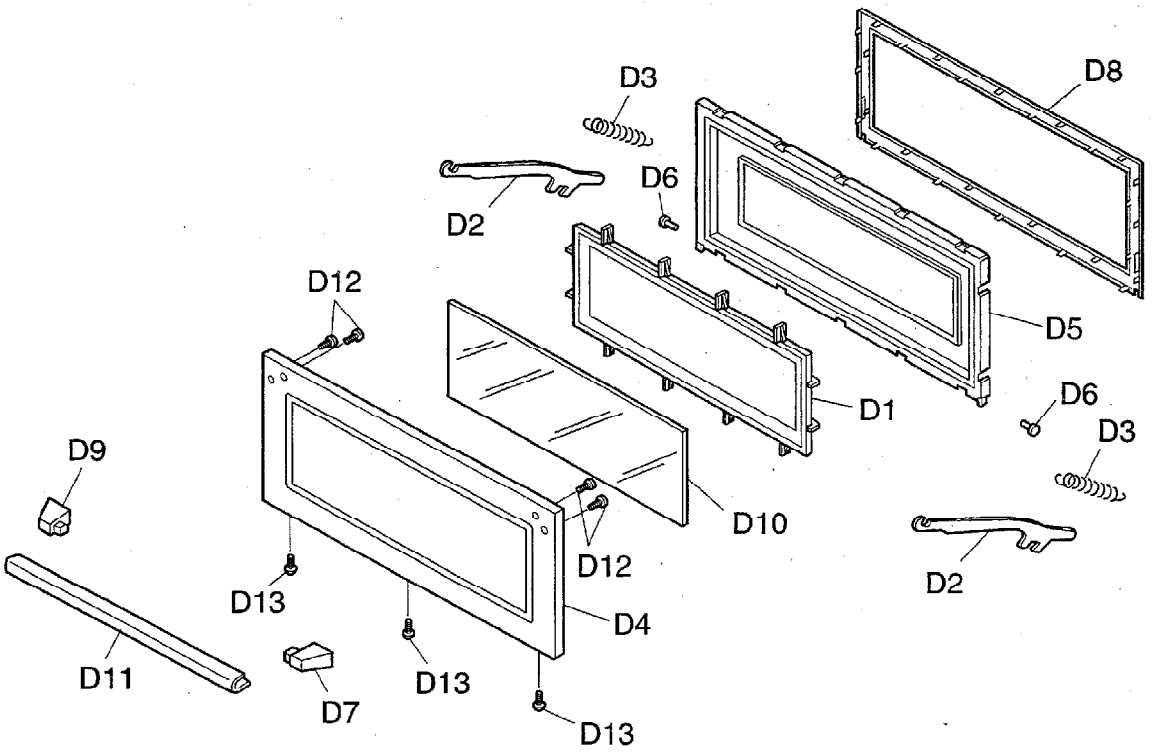
| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| 1 | | A00065460JP | CAUTION LABEL | 1 | |
| 2 | | A00073580VP | NAME LABEL | 1 | |
| 3 | | ANE0033P10GN | FUSE LABEL | 1 | |
| 4 | | ANE0072Z70GP | CAUTION LABEL | 1 | |
| 5 | | A010T3030GP | SHELF | 1 | |
| 6 | | ANE0239L00XN | CORD LABEL | 1 | |
| 7 | | A02433580GP | TERMINAL LABEL | 1 | |
| 8 | | ANE0911000DF | CUSHION RUBBER B | 1 | |
| 9 | | A490Y3050GP | FAN MOTOR B (2RB220AU) | 1 | (48W) |
| 10 | | ANE0911000EG | CUSHION RUBBER B | 2 | |
| 11 | | ANE0911000EH | CUSHION RUBBER B | 2 | |
| 12 | | ANE0917000EB | CUSHION RUBBER B | 2 | |
| 13 | | ANE0921000CG | CUSHION RUBBER C | 1 | |
| 14 | | ANE000Z000AA | CUSHION RUBBER C | 15 | |
| 15 | | ANE0922000JE | CUSHION RUBBER C | 1 | |
| 16 | | ANE000Z000AB | CUSHION RUBBER C | 2 | |
| 17 | | ANE0924000AB | CUSHION RUBBER C | 2 | |
| 18 | | ANE0961000ZL | CUSHION RUBBER D | 2 | |
| 19 | | ANE0962000ZE | CUSHION RUBBER D | 2 | |
| 20 | | ANE0963000AS | CUSHION RUBBER D | 2 | |
| 21 | | A100A3560GP | BASE | 1 | (W/FOOT,RUBBER FOOT) NOTE 1 |
| 22 | | A100Q3560GP | BACK PANEL | 1 | |
| 23 | | A1007-3280 | FOOT | 4 | |
| 24 | | A1008-3280 | RUBBER FOOT | 4 | |
| 25 | | A10093030GP | CABINET BODY (U) | 1 | |
| 26 | | A10133030GP | LEFT SIDE SASH | 1 | |
| 27 | | A10143030GP | RIGHT SIDE SASH | 1 | |
| 28 | | A10203030GP | SASH RUBBER B | 1 | LEFT |
| 29 | | A10263030GP | LAMP COVER | 1 | |
| 30 | | A10283030GP | ANTENNA MOTOR COVER | 2 | |
| 31 | | A10493030GP | CUSHION RUBBER | 2 | |
| 32 | | A10503030GP | SASH RUBBER A | 1 | RIGHT |
| 33 | | A10583560GP | BACK PANEL COVER A | 1 | |
| 34 | | A10593560GP | BACK PANEL COVER B | 1 | |
| 35 | | ANE11548U0AP | BACK PANEL COVER | 1 | |
| 36 | | A11743060GP | SPACER | 1 | |
| 37 | | A16163030GP | PANEL B (U) | 1 | |
| 38 | | A18593560GP | SHELF SUPPORT | 2 | |
| 39 | ⚠ | A200A3560GP | OVEN | 1 | |
| 40 | | A200P3030GP | ROLLER BRACKET A | 1 | RIGHT |
| 41 | | A200Q3030GP | ROLLER BRACKET B | 1 | LEFT |
| 42 | | A20103030GP | CEILING PLATE B | 2 | |
| 43 | ⚠ | A20113030GP | CEILING PLATE | 1 | |
| 44 | | A20193030GP | ANTENNA STOPPER | 8 | |
| 45 | | A202R3560GP | ANTENNA (U) | 4 | |
| 46 | | A22173030GP | BARRIER SHEET A | 1 | |
| 47 | | A22193030GP | BARRIER SHEET C | 1 | |
| 48 | | ANE3008P00RN | HINGE PIN | 2 | |
| 49 | | A30183030GP | DOOR KEY A | 2 | |
| 50 | ⚠ | A30203030GP | DOOR HOOK A | 2 | |
| 51 | | ANE3033-560 | DOOR ROLLER PIN | 2 | |
| 52 | | ANE3034-560 | DOOR GUIDE ROLLER | 2 | |
| 53 | | A31123050GP | DOOR HOOK B | 2 | |

| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| 54 | | A31363030GP | HOOK SPACER A | 2 | |
| 55 | | ANE3155-610 | SPRING | 2 | |
| 56 | | ANE3157-610 | PACKING RUBBER | 2 | |
| 57 | | A31863580VP | DOOR PANEL | 1 | |
| 58 | | A32493030GP | DOOR SWITCH LEVER | 2 | |
| 59 | | A32523030GP | DOOR ARM SPACER | 2 | |
| 60 | | A33373030GP | DOOR ARM LEVER | 2 | |
| 61 | | A400B3040AP | AIR FILTER FLAME | 2 | |
| 62 | | A400C3040AP | EXHAUST GUIDE B | 1 | |
| 63 | | A490W3050GP | FAN MOTOR A (K2RB220BU) | 1 | (48W) |
| 64 | | A402N3030GP | EXHAUST GUIDE A | 1 | |
| 65 | | A40253030GP | AIR GUIDE A | 2 | |
| 66 | | A40263030GP | AIR GUIDE B | 1 | |
| 67 | | A40313030GP | AIR GUIDE C | 1 | |
| 68 | | A40423040AP | AIR GUIDE F | 2 | |
| 69 | | A40473560GP | AIR GUIDE E | 1 | |
| 70 | | A40923030GP | FILTER HANDLE | 2 | |
| 71 | | A40963030GP | INSULATION SHEET | 1 | |
| 72 | | ANE42408U0AP | FILTER HANDLE B | 2 | |
| 73 | | ANE50328U0AP | MAGNETRON BRACKET | 2 | |
| 74 | ⚠ | A600B3580XN | H.V.TRANSFORMER | 2 | |
| 75 | | A600E3030GP | TERMINAL PLATE | 1 | |
| 76 | | A600S3030GP | CAPACITOR BRACKET | 2 | |
| 77 | | A603M3580GP | PC BOARD B (U) | 1 | |
| 78 | | A603Y3560GP | L.V.TRANSFORMER (U) | 1 | |
| 79 | | ANE6030Q50GN | INCANDESCENT LAMP | 1 | |
| 80 | | A60403030GP | OVEN LAMP SHEET | 1 | |
| 81 | | A60403040AP | OVEN LAMP SHEET | 1 | |
| 82 | | A605Q3030GP | PUSH SWITCH | 1 | |
| 83 | | A605S3030GP | PC BOARD H (U) | 1 | |
| 84 | | A60733030GP | OVEN LAMP COVER | 1 | |
| 85 | ⚠ | 2M210-M1EL | MAGNETRON | 4 | |
| 86 | | A61073030GP | PARTS BRACKET B | 1 | |
| 87 | ⚠ | ANE6142-F60 | MICROSWITCH | 2 | (V-15G-3C26) SECONDARY LATCH SWITCH |
| 88 | ⚠ | ANE61424L0AG | MICROSWITCH | 2 | (V-16G-3C26) PRIMARY LATCH SWITCH |
| 89 | | A6144-3280 | ANTENNA MOTOR | 2 | 2.5W(LOWER) |
| 90 | | A61446030AP | ANTENNA MOTOR | 2 | 2.5W(UPPER) |
| 91 | ⚠ | A61454000AP | THERMAL CUTOUT | 1 | FOR OVEN |
| 92 | ⚠ | A61454050AP | THERMAL CUTOUT | 2 | FOR ANTENNA MOTOR |
| 93 | ⚠ | A61454210AP | THERMAL CUTOUT | 4 | FOR MAGNETRON |
| 94 | ⚠ | ANE61522Q0BP | SOCKET | 1 | |
| 95 | ⚠ | A61583030GP | DOOR SWITCH A | 1 | RIGHT |
| 96 | ⚠ | A61583050GP | DOOR SWITCH B | 1 | LEFT |
| 97 | | A61703030GP | INSULATION SHEET C | 1 | |
| 98 | ⚠ | A62024000AP | DIODE,SI | 4 | |
| 99 | ⚠ | A62303580GP | FUSE | 1 | 20A |
| 100 | ⚠ | A62304210BP | FUSE | 2 | 10A |
| 101 | | A62314000AP | FUSE HOLDER | 1 | |
| 102 | | A62383030GP | SPACER | 2 | |
| 103 | ⚠ | A6390-3120 | H.V.CAPACITOR | 4 | 0.6MF,AC2200V |
| 104 | | A64083040AP | WASHER | 2 | |
| 105 | | A65313030GP | SWITCH HOLDER | 1 | |
| 106 | | A65613030GP | BUZZER CASE | 1 | |
| 107 | ⚠ | A65953170GP | FUSE B | 1 | 1.25A |
| 108 | | A66033030GP | OVEN LAMP BRACKET | 1 | |
| 109 | | A66263040AP | THERMAL CUTOUT MOUNT | 2 | |
| 110 | | A692Y3580GP | NOISE FILTER (U) | 1 | |
| 111 | | ANE81508V0V | TERMINAL LABEL B | 1 | |
| 112 | ⚠ | A900C3580VP | AC CORD W/PLUG | 1 | 220V |
| 113 | | ANE9027510RN | CORD BUSHING | 1 | |
| 114 | | A90353060GP | CORD BRACKET | 1 | |

| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| 115 | | ANE9080-730 | CLIP | 4 | YELLOW |
| 116 | | ANE90828U0AP | CLIP | 2 | BLACK |
| 117 | | ANE9082930AP | CLIP | 8 | |
| 118 | | A91433040AP | CLIP B | 3 | |
| 119 | | A98363030GP | CASE | 1 | |
| 120 | | XNW5EFN | NUT | 2 | FOR SHELF SUPPORT |
| 121 | | XST4+6VS | SCREW | 8 | (4X6) FOR ANTENNA |
| 122 | | XTC4+10BC | SCREW | 9 | (4X10) FOR CABINET BODY,SASH, LAMP COVER |
| 123 | | XTC4+12BK | SCREW (BLACK) | 3 | (4X12) FOR BASE |
| 124 | | XTEANE5+10B | SCREW | 4 | (5X10) FOR ROLLER BRACKET |
| 125 | | A83613030GP | SWITCH SPACER | 1 | |
| 126 | | XTWANF4+10RU | SCREW | 8 | (4X10) FOR MAGNETRON:LOWER |
| 127 | | XWC4BPN | WASHER | 2 | FOR BACK PANEL COVER, ESCUTCHEON BASE |
| 128 | | XWG5BV | WASHER | 2 | FOR SHELF SUPPORT |
| 129 | | XWNANE53GV | SPACER | 1 | FOR TERMINAL PLATE |
| 130 | | XYD4+EE12F | SCREW | 19 | (4X12) FOR TERMINAL PLATE, ANTENNA MOTOR COVER,DIODE, SWITCH HOLDER,EARTH, CAPACITOR BRACKET, ESCUTCHEON BASE |
| 131 | | XYEANE5+C16T | SCREW | 8 | (5X16) FOR MAGNETRON:UPPER |
| 132 | | XYN4+F12S | SCREW | 4 | (4X12) FOR DOOR SWITCH |
| 133 | | XYN4+F18S | SCREW | 4 | (4X18) FOR DOOR HOOK B |
| 134 | | A80163060GP | CUSHION SPACER | 1 | |
| 135 | | XTS4+10FC | SCREW | 1 | (4X10) FOR ESCUTCHEON BASE |
| 136 | | XTWANE3+8EX | SCREW | 4 | (3X8) FOR FOOT |
| 137 | | A601L4000AP | TEMP SENSOR | 1 | |
| 138 | | XTT4+8E | SCREW | 1 | (4X8) FOR BACK PANEL COVER |

NOTE 1 : Please order name label together.

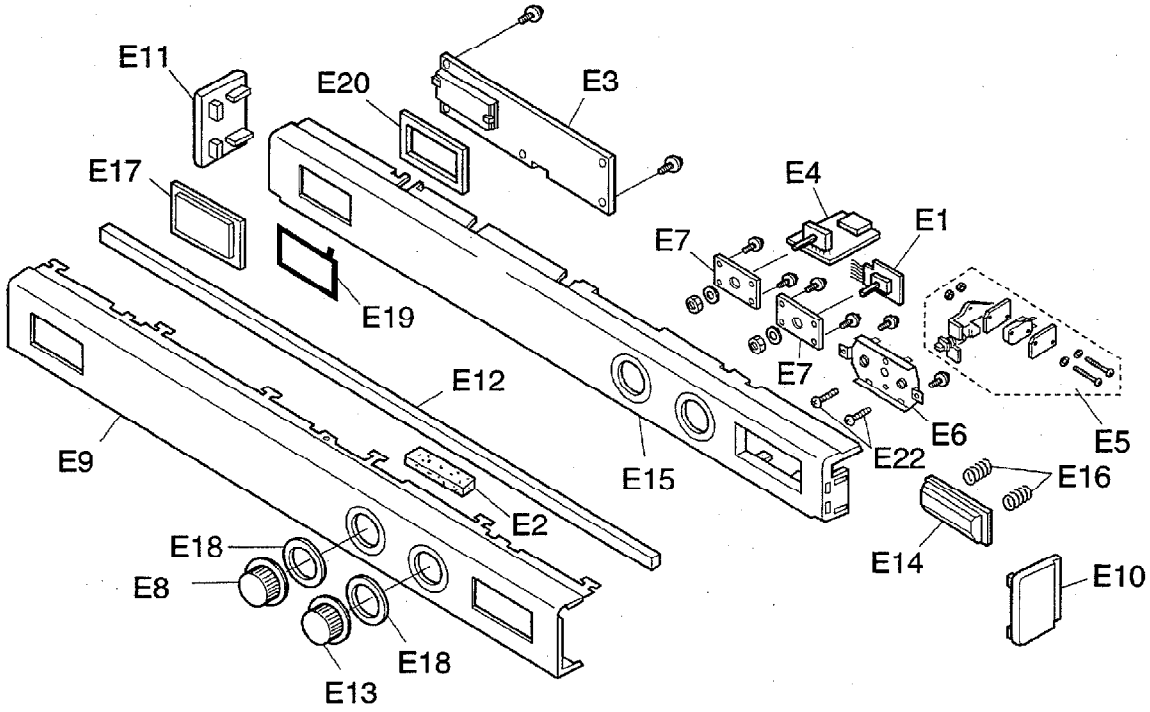
## DOOR ASSEMBLY




(S-358 VPE)

| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| D1 | | A30033030GP | DOOR FRAME | 1 | |
| D2 | | A30043030GP | DOOR ARM | 2 | |
| D3 | | ANE3009P00RN | DOOR SPRING | 2 | |
| D4 | ⚠ | A301A3030GP | DOOR A | 1 | |
| D5 | ⚠ | A302K3030GP | DOOR E (U) | 1 | |
| D6 | | ANE3036P00RN | DOOR ARM PIN | 2 | |
| D7 | | A30703030GP | HANDLE PEICE A | 1 | |
| D8 | ⚠ | A30853030GP | DOOR C | 1 | |
| D9 | | A31343030GP | HANDLE PEICE B | 1 | |
| D10 | | A31463030GP | DOOR SCREEN B | 1 | |
| D11 | | A31473030GP | HANDLE PEICE C | 1 | |
| D12 | | XYEANE4+C16T | SCREW | 4 | (4X16) |
| D13 | | XTC4+10BC | SCREW | 3 | (4X10) |

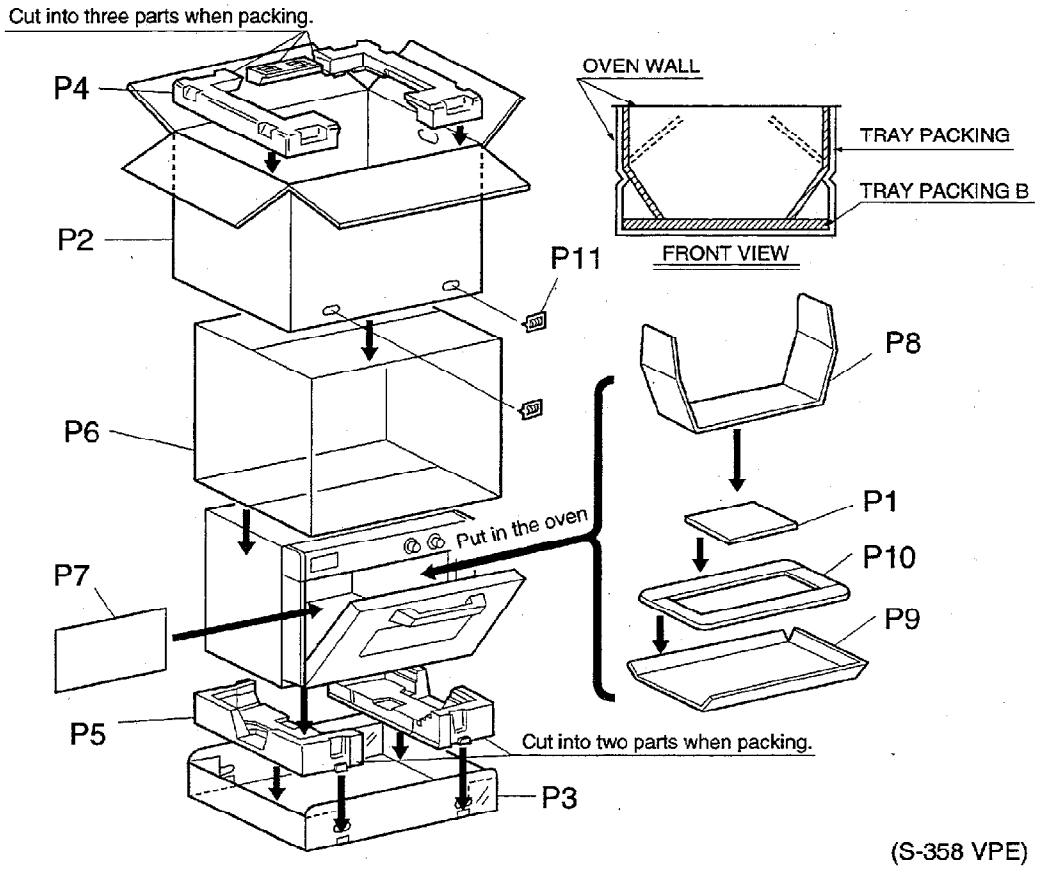
## ESCUTCHEON BASE ASSEMBLY




(S-358 VPE)

| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| E1 | | A03613560GP | TIMER | 1 | |
| E2 | | ANE1062-8U0 | CUSHION RUBBER B | 1 | |
| E3 | | A603L3560GP | D.P.CIRCUIT (U) | 1 | RTL (W/COMPONENT) |
| E4 | | A608C3560GP | POWER SELECT SWITCH | 1 | |
| E5 | | ANE610EP00RN | START SWITCH | 1 | |
| E6 | | A61623030GP | START SWITCH BRACKET | 1 | |
| E7 | | A63433030GP | TIMER BRACKET | 2 | |
| E8 | | A800D3030GP | TIMER KNOB | 1 | |
| E9 | | A80013030GP | ESCUTCHEON A | 1 | |
| E10 | | A80023030GP | ESCUTCHEON B | 1 | |
| E11 | | A80063030GP | ESCUTCHEON D | 1 | |
| E12 | | A80163030GP | CUSHION SPACER | 1 | |
| E13 | | A800D3060GP | TIMER KNOB | 1 | |
| E14 | | ANE8024P00RN | COOK BUTTON | 1 | |
| E15 | | A80343030GP | ESCUTCHEON BASE | 1 | |
| E16 | | ANE8037P00RN | COOK BUTTON SPRING | 2 | |
| E17 | | A81263030GP | SMOKE PANEL | 1 | |
| E18 | | A82873030GP | SPACER A | 2 | |
| E19 | | A83373560GP | ESCUTCHEON SHEET | 1 | |
| E20 | | A83423030GP | CUSHION RUBBER B | 1 | |

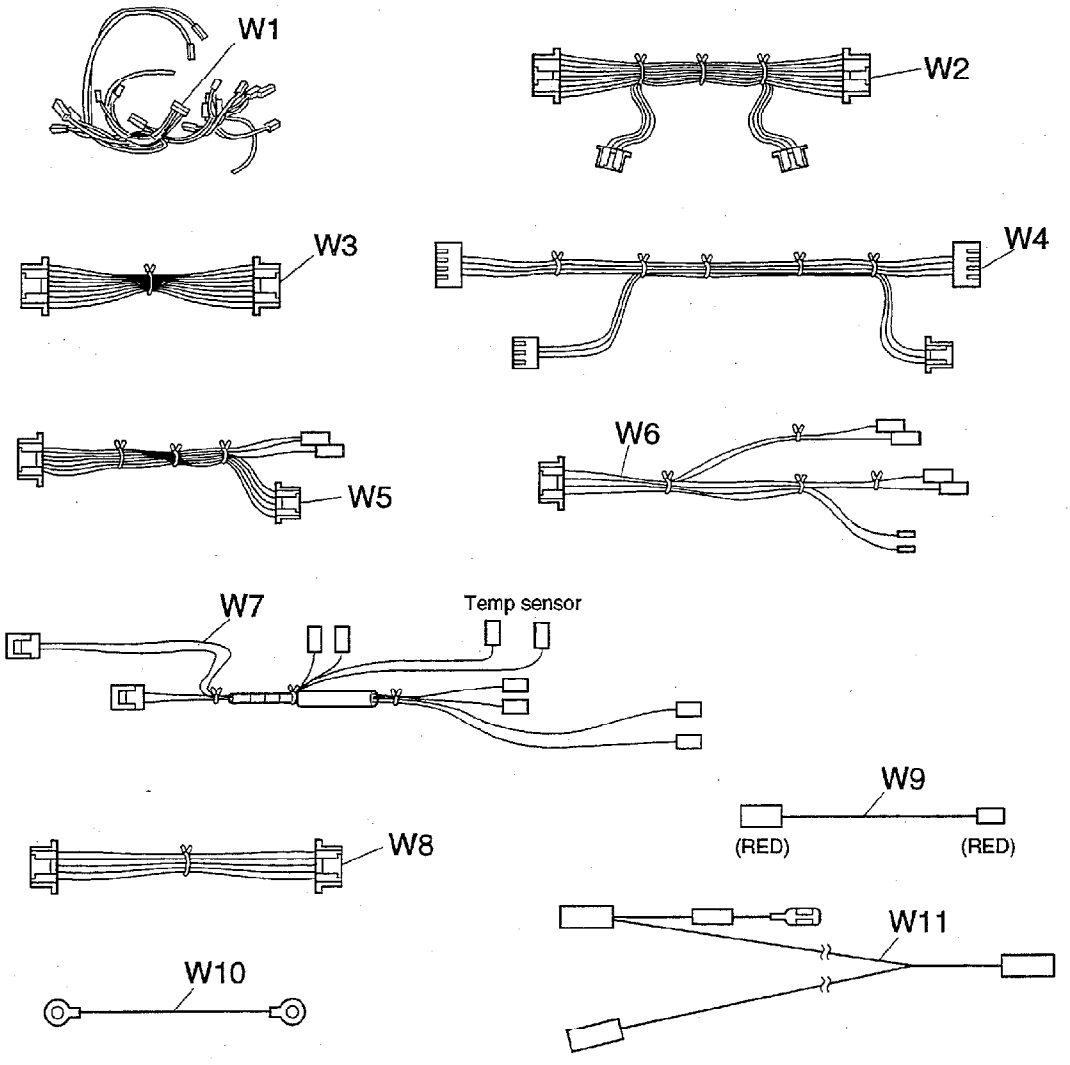
## PACKING AND ACCESSORIES



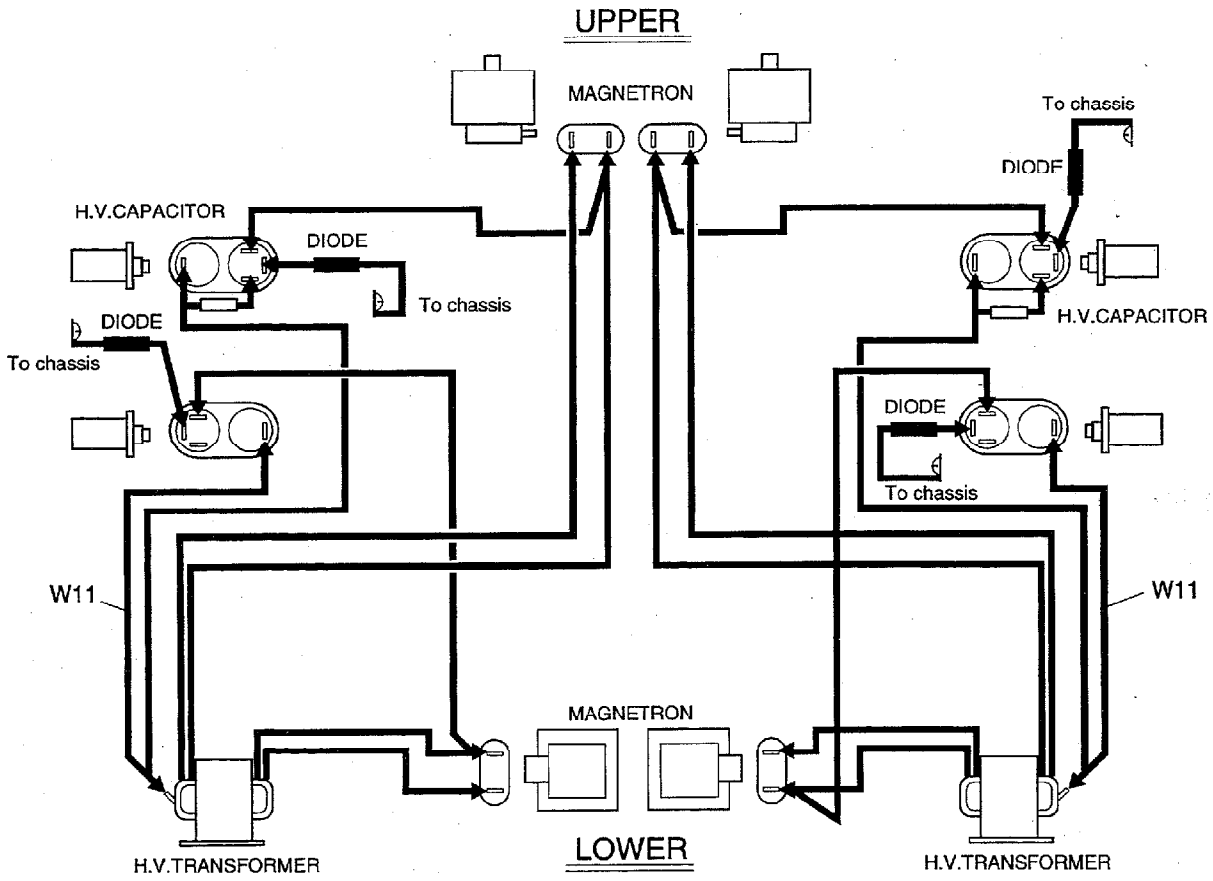

(S-358 VPE)

| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| P1 | | A00033580VP | INSTRUCTION BOOK | 1 | |
| P2 | | A01023580VP | PACKING CASE,PAPER | 1 | |
| P3 | | A01033030GP | BOTTOM CASE | 1 | |
| P4 | | A01043030GP | UPPER FILLER | 1 | |
| P5 | | A01053030GP | LOWER FILLER | 1 | |
| P6 | | A01063040AP | VINYL COVER | 1 | |
| P7 | | A01073030GP | DOOR SHEET | 1 | |
| P8 | | A01083030GP | TRAY PACKING | 1 | |
| P9 | | A01173030GP | TRAY PACKING B | 1 | |
| P10 | | A012D3050GP | SHELF B | 1 | |
| P11 | | HP-601W2 | FASTENER | 4 | |

## WIRING MATERIAL




(S-358 VPE)


UPPER
MAGNETRON
To chassis
DIODE
H.V.CAPACITOR
DIODE
To chassis
H.V.CAPACITOR
DIODE
To chassis
DIODE
To chassis
W11
W11
MAGNETRON
LOWER
H.V.TRANSFORMER
H.V.TRANSFORMER

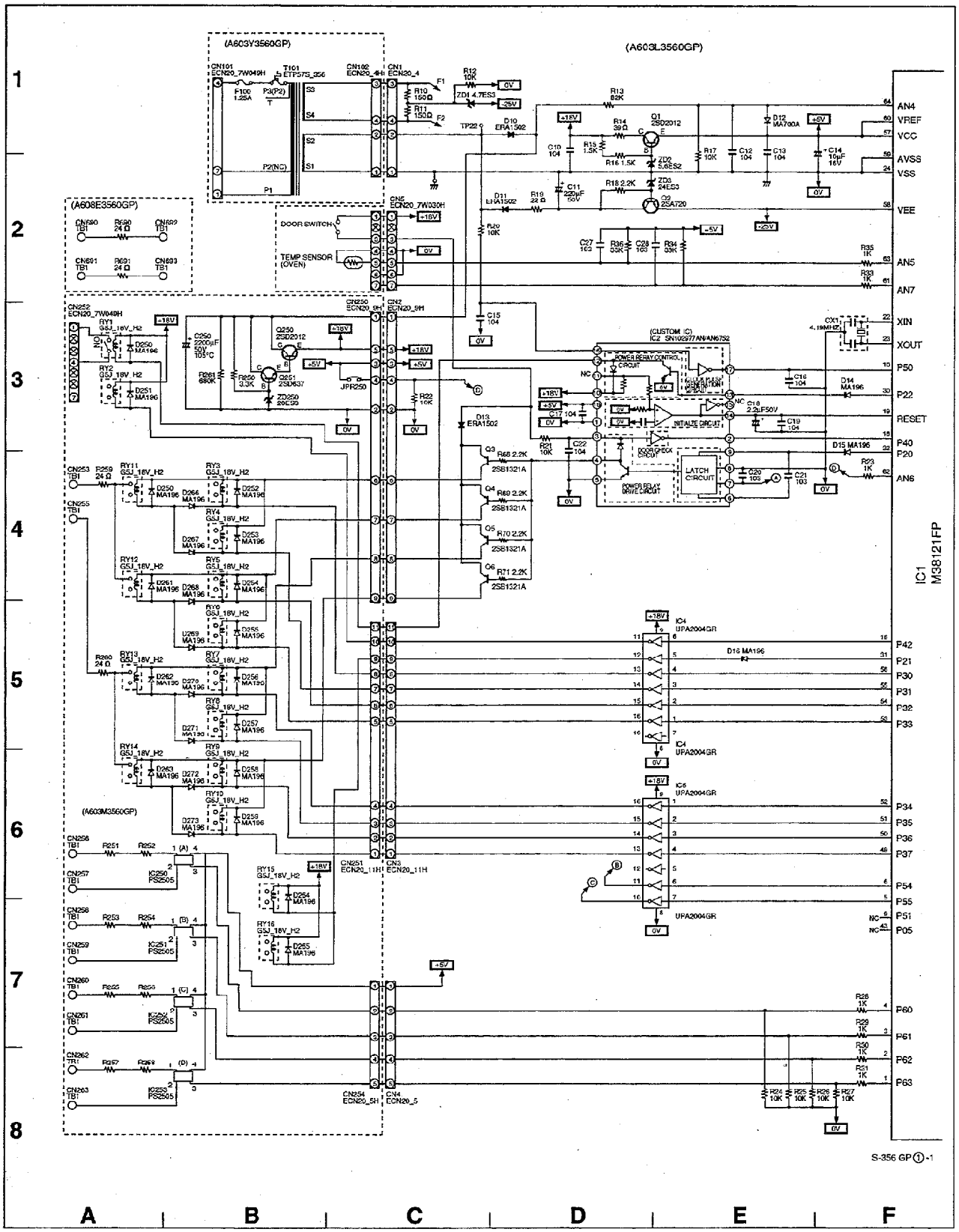
(S-358 VPE)

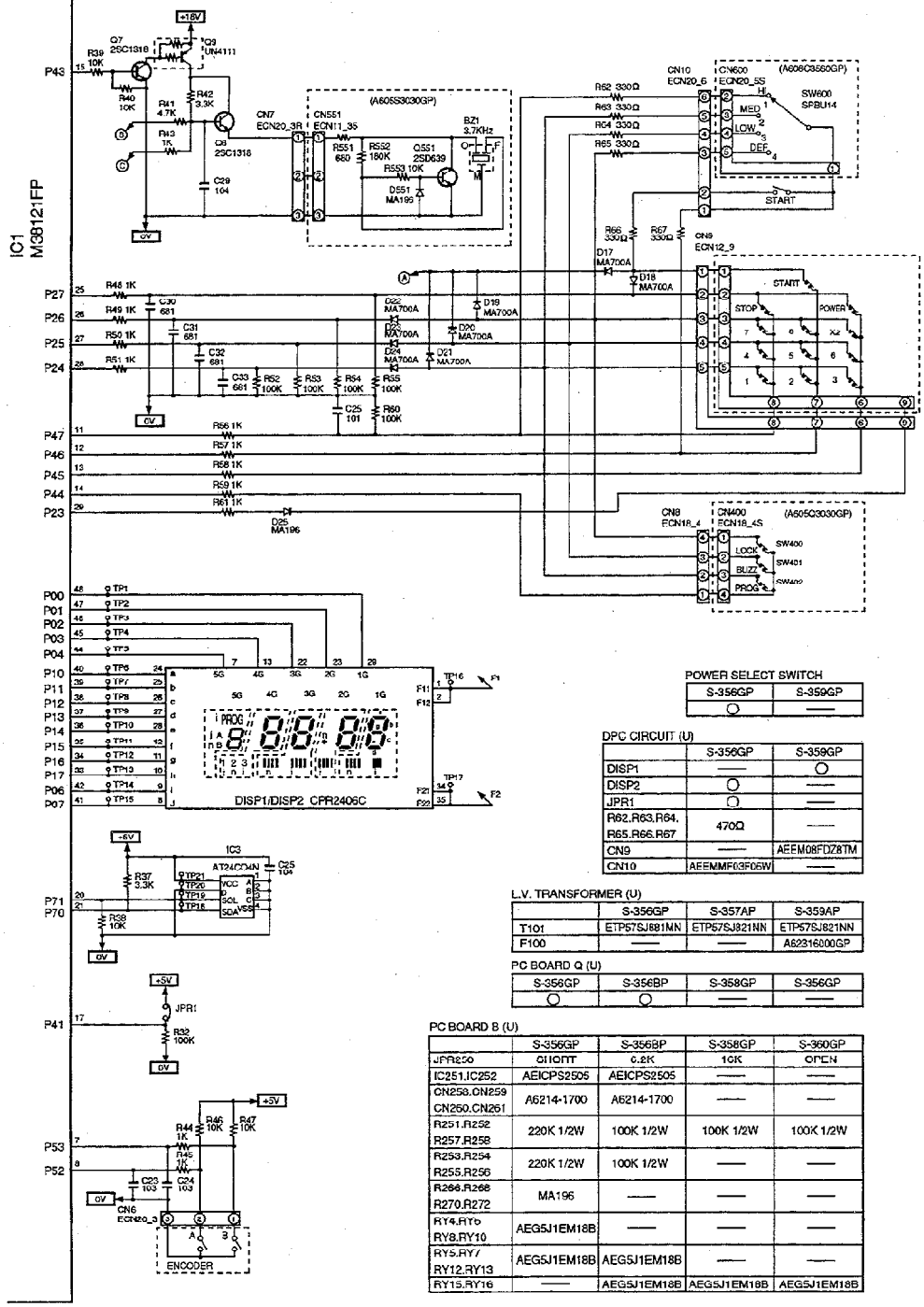
| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| W1 | | A030A3580GP | LEAD WIRE HARNESS | 1 | |
| W2 | | A03603560GP | LEAD WIRE | 1 | |
| W3 | | A03623560GP | LEAD WIRE | 1 | |
| W4 | | A03633560GP | LEAD WIRE | 1 | |
| W5 | | A03643560GP | LEAD WIRE | 1 | |
| W6 | | A03653560GP | LEAD WIRE | 1 | |
| W7 | | A03693560GP | LEAD WIRE | 1 | |
| W8 | | A03703560GP | LEAD WIRE | 1 | |
| W9 | | A03723580GP | LEAD WIRE | 1 | |
| W10 | | A03813030GP | LEAD WIRE | 2 | |
| W11 | | A606V3580GP | PROTECTOR DIODE | 2 | |

| Ref. No. | | Part No. | Part Name & Description | Pcs/ Set | Remarks |
|---|---|---|---|---|---|
| **REF NO. 77 P. C. BOARD B (U)** | | | | | |
| | ⚠ | AEGHPUG3640 | POWER RELAY | 1 | |
| | | ERDS2TJ163T | CARBON FILM RESISTOR | 1 | 16KΩ,1/4W,5% |
| | | XYN3+F8S6 | SCREW | 1 | 3X8 |
| | | 2SD2012 | TRANSISTOR,SI | 1 | |
| C250 | | ECA1HHG222E | ELECTROLYTIC CAPACITOR,AL | 1 | 2200MF/50V |
| CN250 | | AEEMMD1FF09W | CONNECTOR | 1 | 9PIN |
| CN251 | | AEEMMD7FF11N | CONNECTOR | 1 | 11PIN |
| CN252 | | AEEMMD04907W | CONNECTOR | 1 | 7PIN |
| CN254 | | AEEMMD01F05W | CONNECTOR | 1 | 5PIN |
| D250,251,252, 253,254,255, 256,257,258, 259,260,261, 262,263,264, 265,267,269, 271,273 | | MA196-(TA5) | DIODE,SI | 20 | |
| IC250,253 | | AEICPS2505 | IC | 2 | |
| Q251 | | 2SD637-PQRS | TRANSISTOR,SI | 1 | |
| R250 | | ERDS2TJ332T | CARBON FILM RESISTOR | 1 | 3.3KΩ,1/4W,5% |
| R251,252, 257,258 | | ERDS1TJ104T | CARBON FILM RESISTOR | 4 | 100KΩ,1/2W,5% |
| R259,260 | | ERF15ZXJ240 | RESISTOR | 2 | 24Ω,15W,5% |
| R261 | | ERDS2TJ684T | CARBON FILM RESISTOR | 1 | 680KΩ,1/4W,5% |
| RY1 | ⚠ | AEBG5B18P-1 | POWER RELAY | 1 | 18V(G5B-1-ER18) |
| RY2,3,9 11,14, 15,16 | ⚠ | AEG5J1EM18B | POWER RELAY | 7 | 18V(G5J-1-TP-M-ER18) |
| ZD250 | | AEDZ20ES3T1 | DIODE,SI | 1 | |
| **REF NO. 83 P. C. BOARD H (U)** | | | | | |
| BZ | | EFBRL37C20 | BUZZER | 1 | 3.7KHZ |
| CN551 | | AEEMMB00703R | CONNECTOR | 1 | RED 3PIN |
| D551 | | MA196-(TA5) | DIODE,SI | 1 | |
| Q551 | | 2SD639-PQRS | TRANSISTOR,SI | 1 | |
| R551 | | ERDS2TJ681T | CARBON FILM RESISTOR | 1 | 680Ω,1/4W,5% |
| R552 | | ERDS2TJ184T | CARBON FILM RESISTOR | 1 | 180KΩ,1/4W 5% |
| R553 | | ERDS2TJ103T | CARBON FILM RESISTOR | 1 | 10KΩ,1/4W,5% |
| **REF NO. 110 NOISE FILTER (U)** | | | | | |
| C1,6 | | ECQU2A224MNA | POLYESTER CAPACITOR | 2 | 0.22MF,250V |
| C2,3 | ⚠ | ECKMNA472ME | CERAMIC CAPACITOR | 2 | 0.0047MF,250V |
| CN9 | | AEEMMD00703W | CONNECTOR | 1 | 3PIN |
| D1 | | ERZC10DK621F | VARISTOR | 1 | |
| D2,3 | | ERZC10DK112R | VARISTOR | 2 | |
| F1,2 | | A62316010BP | FUSE HOLDER | 4 | |
| F3 | | A62316000GP | FUSE HOLDER | 2 | |
| L1 | | A621A-1440 | FILTER COIL | 1 | |

# DIGITAL PROGRAMMER CIRCUIT

## SCHEMATIC DIAGRAM




IC1
M38121FP
DISP1/DISP2 CPR2406C
ENCODER
SW600
SFBUH4
SW400
SW401
SW402
(A606S3560GP)
(A605S3030GP)
(A605Q3030GP)
POWER SELECT SWITCH
S-356GP
S-359GP
DPC CIRCUIT (U)
S-356GP
S-359GP
DISP1
DISP2
JPR1
R62,R63,R64,
R65,R66,R67
470Ω
CN9
AEEM08FDZ8TM
CN10
AEEMMF03F06W
L.V. TRANSFORMER (U)
S-356GP
S-357AP
S-359AP
T101
ETP57SJ881MN
ETP57SJ821NN
ETP57SJ821NN
F100
A62316000GP
PC BOARD Q (U)
S-358GP
S-356BP
S-358GP
S-356GP
PC BOARD B (U)
S-356GP
S-356BP
S-358GP
S-360GP
JPR250
CLOSE
0.2K
1CK
OPEN
IC251,IC252
AEICPS2505
AEICPS2505
CN258,CN259
CN260,CN261
A6214-1700
A6214-1700
R251,R252
R257,R258
220K 1/2W
100K 1/2W
100K 1/2W
100K 1/2W
R253,R254
R255,R256
220K 1/2W
100K 1/2W
R266,R268
R270,R272
MA196
RY4,RY6
RY8,RY10
AEG5J1EM18B
RY5,RY7
RY12,RY13
AEG5J1EM18B
AEG5J1EM18B
RY15,RY16
AEG5J1EM18B
AEG5J1EM18B
AEG5J1EM18B
S-356 GP②-1

# DIGITAL PROGRAMMER CIRCUIT

## PARTS LIST

| Ref. No. | Part No. | Description | Pcs/ Set | Remarks |
|---|---|---|---|---|
| C10,12,13, 15,16,17,19, 22,26,29 | AECF50F104Z | CERAMIC CAPACITOR | 10 | 0.1MF/50V |
| C11 | ECA1HM221B | ELECTROLYTIC CAPACITOR,AL | 1 | 220MF/50V |
| C14 | ECEA1CKA100B | ELECTROLYTIC CAPACITOR,AL | 1 | 10MF/16V |
| C18 | ECEA1HKA2R2B | ELECTROLYTIC CAPACITOR,AL | 1 | 2.2MF/50V |
| C20,21,23, 24,27,28 | ECBT1E103ZF5 | CERAMIC CAPACITOR | 6 | 0.01MF/25V |
| C25 | ECBT1H101KB5 | CERAMIC CAPACITOR | 1 | 0.0001MF/50V |
| C30,31,32,33 | ECBT1H681KB5 | CERAMIC CAPACITOR | 4 | 680PF |
| CN1 | AEEMMF00F04W | CONNECTOR | 1 | 4PIN |
| CN2 | AEEMMD1FF09W | CONNECTOR | 1 | 9PIN |
| CN3 | AEEMMD7FF11N | CONNECTOR | 1 | 11PIN |
| CN4 | AEEMMF01F05W | CONNECTOR | 1 | 5PIN |
| CN5 | AEEMMD07D07W | CONNECTOR | 1 | 7PIN |
| CN6 | AEEMMF00703W | CONNECTOR | 1 | 3PIN |
| CN7 | AEEMMF00703R | CONNECTOR | 1 | RED 3PIN |
| CN8 | AEEMB04BPHK | CONNECTOR | 1 | 4PIN |
| CN10 | AEEMMF03F06W | CONNECTOR | 1 | 6PIN |
| CN600 | AEEMMG01F05W | CONNECTOR | 1 | 5PIN |
| CX1 | EFOGC4194T4 | RESONATOR | 1 | 4.19MHZ |
| D10,11,13 | AEDNERA1502 | DIODE,SI | 3 | 1.0A |
| D12,17,18,21,22 | MA700A-(TA) | DIODE,SI | 9 | MA700A,0.03A |
| D14,15,16,25 | MA196-(TA5) | DIODE,SI | 4 | MA196,0.1A |
| DISP2 | A64563030GP | FLUORESCENT TUBE | 1 | CPR2406C |
| IC1 | AEIC38121113 | IC | 1 | M38121 |
| IC2 | AEIC102977AN | IC | 1 | SN102977AN/AN5732 |
| IC3 | AEICAT24C04N | IC | 1 | AT24C04N |
| IC4,5 | AEICU2004GR | IC | 2 | A2004G |
| Q1 | 2SD2012 | TRANSISTOR,SI,2W | 1 | 3MHZ |
| Q2 | 2SA720PRTA | TRANSISTOR,SI,400MW | 1 | 200MHZ |
| Q3,4,5,6 | 2SB1321ASSTA | TRANSISTOR,SI,600MW | 4 | |
| Q7,8 | 2SC1318QSTA | TRANSISTOR,SI,400MW | 2 | 200MHZ |
| Q9 | UN4111-(TA) | TRANSISTOR,SI,300MW | 1 | |
| R10,11 | ERDS2TJ151T | CARBON FILM RESISTOR | 2 | 150Ω,1/4W,5% |
| R12,17,20,21,22, 24,25,26,27,28 38,39,40,46,47 | ERDS2TJ103T | CARBON FILM RESISTOR | 14 | 10KΩ,1/4W,5% |
| R13 | ERDS2TJ823T | CARBON FILM RESISTOR | 1 | 82KΩ,1/4W,5% |
| R14 | ERDS2TJ390T | CARBON FILM RESISTOR | 1 | 39Ω,1/4W,5% |
| R15,16 | ERDS2TJ152T | CARBON FILM RESISTOR | 2 | 1.5KΩ,1/4W,5% |
| R18,68,69, 70,71 | ERDS2TJ222T | CARBON FILM RESISTOR | 5 | 2.2KΩ,1/4W,5% |
| R19 | ERDS2TJ220T | CARBON FILM RESISTOR | 1 | 22Ω,1/4W,5% |
| R23,26,29, 30,31,33,35, 43,44,45,48, 49,50,51,56, 57,58,59,61 | ERDS2TJ102T | CARBON FILM RESISTOR | 19 | 1.0KΩ,1/4W,5% |
| R32,52,53, 54,55,60 | ERDS2TJ104T | CARBON FILM RESISTOR | 6 | 100KΩ,1/4W,5% |
| R34,36 | ERDS2TJ333T | CARBON FILM RESISTOR | 2 | 33KΩ,1/4W,5% |
| R37,42 | ERDS2TJ332T | CARBON FILM RESISTOR | 2 | 3.3KΩ,1/4W,5% |
| R41 | ERDS2TJ472T | CARBON FILM RESISTOR | 1 | 4.7KΩ,1/4W,5% |
| R62,63,64,67 | ERDS2TJ331T | CARBON FILM RESISTOR | 6 | 330Ω,1/4W,5% |
| SPACER2 | A82843030GP | SPACER CUSHION | 2 | |
| SW600 | A65423030GP | SWITCH | 1 | |
| ZD1 | AEDZ4R7ES3T1 | DIODE,SI | 1 | RD4.7ES3 |
| ZD2 | AEDZ5R6ES2T1 | DIODE,SI | 1 | RD5.6ES2 |
| ZD3 | AEDZ24ES3T1 | DIODE,SI | 1 | RD24ES3 |

| Ref. No. | Part No. | Description | Pcs/ Set | Remarks |
|---|---|---|---|---|

WP-571(M)
S-358 VPE
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